



CITY OF PETALUMA

POST OFFICE BOX 61
PETALUMA, CA 94953-0061

Kevin McDonnell
Mayor

ADDENDUM NO. 2

Brian Barnacle
Janice Cader-Thompson,
Dist. 1
Mike Healy
Karen Nau, Dist. 3
Dennis Pocekay
John Shribbs, Dist. 2
Councilmembers

PETALUMA TURNING BASIN FLOAT, PILE, AND GANGWAY REPLACEMENT City Project Number C14402010

July 20, 2023

This Addendum No. 2 modifies the Bidding Documents for the Petaluma Turning Basin Float, Pile, and Gangway Replacement City Project Number C14402010. This Addendum shall become part of the Contract and all provisions of the Contract shall apply thereto. Bidders shall acknowledge all Addendums in the Bid Schedule.

BID SCHEDULE CHANGE:

BID SCHEDULE – BID ITEM NO. 8 – CHANGE ESTIMATED QUANTITY

Public Works & Utilities

City Engineer
11 English Street
Petaluma, CA 94952
Phone (707) 778-4303

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
8	Furnish & Install Concrete Gangway Foundations & Ramp	32	CY		

Environmental Services

Ellis Creek Water
Recycling Facility
3890 Cypress Drive
Petaluma, CA 94954
Phone (707) 776-3777
Fax (707) 656-4067

BID SCHEDULE - OPTIONAL BID ITEM NO. 4 - ADD

OPTIONAL BID ITEMS

Item No.	Description	Unit	Unit Price
4	2024 Installation of Concrete Floating Docks, Water/Power Pedestals, Metal Gangways, And Re-Install PSCC Gate/Gangway (Conditional Based on Permit Requirements And Delivery Schedule).	LS	
5	Project Start Delay to June 2024	LS	

Facilities, Parks & Streets Maintenance
840 Hopper St.
Petaluma, CA 94952
Phone (707) 778-4303
Fax (707) 206-6065

Optional Bid Item Number 4: 2024 Installation of Concrete Floating Docks, Water/Power Pedestals, Metal Gangways, and Re-Install PSCC Gate/Gangway (Conditional Based on Permit Requirements and Delivery Schedule) has been added to the Bid Schedule. In the event that the floating concrete docks are unable to be delivered to the project site by a date that provides the Contractor adequate time to install the floats within the 2023 in-water-work-window and should the permit documents not allow for instillation of the floating docks outside of the in-water

Transit Division
555 N. McDowell Blvd.
Petaluma, CA 94954
Phone (707) 778-4421

Utilities & Field Operations
202 N. McDowell Blvd.
Petaluma, CA 94954
Phone (707) 778-4546
Fax (707) 206-6034

E-Mail:
publicworks@
cityofpetaluma.org

work window, the Contractor shall return to the site during the in-water-work-window beginning in June of 2024 to perform the work associated with Bid Items 2, 6, 9 and 12. Should the permit documents allow for installation of the floating docks outside of the in-water work window, it is the intent of the City to have all work performed in 2023.

MEASUREMENT AND PAYMENT CHANGES:

SECTION 012205 MEASUREMENT AND PAYMENT – SECTION 2.7 – REVISE

2.7 BID ITEM 7 – INSTALL 16-IN DIA. X 50-FT LONG X 3/8-IN W.T. STEEL PIPE PILES

SECTION 012205 MEASUREMENT AND PAYMENT – SECTION 2.16 - ADD

2.16 OPTIONAL BID ITEM 4 – 2024 INSTALLATION OF CONCRETE FLOATING DOCKS, WATER/POWER PEDESTALS, METAL GANGWAYS, AND RE-INSTALL PSCC GATE/GANGWAY (CONDITIONAL BASED ON PERMIT REQUIREMENTS AND DELIVERY SCHEDULE).

A. WORK COVERED BY CONTRACT PRICE

1. Work associated with this optional bid item shall include all required materials, equipment, site preparation/restoration and temporary facilities furnished for the re-mobilization of equipment to the site in order to install the concrete floating docks, water/power pedestals, metal gangways, and re-install PSCC gate/gangway within the time of year window (June 15, 2024 – November 30, 2024). This item is intended to supplement Bid Items 6, 9, and 12 for any additional incurred costs to the Contractor. This item shall be included in the contract lump-sum prices for Items of re-mobilization as listed in Section I BID FORM as part of the Revised Bid Schedule.
2. This item is only intended for use should the permit documents not allow for installation of the floating docks outside of the work window. No payment shall be made under this item should the contractor be able to complete the work specified within the Contract Documents under one (1) mobilization / demobilization.
3. It is the intent of the City to perform all work in 2023. This optional item shall only be utilized in the event that permits or delivery schedule preclude the Contractor from doing so.

B. MEASUREMENT AND PAYMENT

1. Unit of Measure: LUMP SUM (LS)
2. This item will be measured as Lump Sum, complete in place as accepted by the Engineer.
3. Payment
 - a. The City will pay all additional costs incurred for the remobilization, demobilization and installation as a supplement Bid Items 6, 9, and 12 as required to perform the work within the 2024 time of year window.
 - b. The City or its Engineer may require the Contractor to furnish cost data to justify this portion of the bid if the City or its Engineer believes that the

percentages do not bear a reasonable relation to the cost of the work in this contract.

- c. Failure to justify such price to the satisfaction of the City or its Engineer will result in payment, as determined by the City or Project Engineer, of:
 - 1) Actual re-mobilization costs at completion of mobilization.
 - 2) Actual demobilization costs at completion of demobilization; and
 - 3) The remainder of this item in the final payment under this contract.

**2.17 OPTIONAL BID ITEM 5 – PROJECT START DELAY TO JUNE 2024
(CONDITIONAL BASED ON PERMIT REQUIREMENTS AND DELIVERY
SCHEDULE).**

A. WORK COVERED BY CONTRACT PRICE

1. Work associated with this optional bid item shall include all costs associated with delaying the entire project start of work to within the 2024 time of year window (June 15, 2024 – November 30, 2024).
2. This item is only intended for use should the City decide to delay the work to June of 2024. No payment shall be made under this item should the contractor be able to complete the work within the timeframe specified within the Contract Documents.
3. It is the intent of the City to perform all work in 2023. This optional item shall only be utilized in the event that permits or delivery schedule preclude the Contractor from doing so.

B. MEASUREMENT AND PAYMENT

1. Unit of Measure: LUMP SUM (LS)
2. This item will be measured as Lump Sum, complete in place as accepted by the Engineer.
3. Payment
 - a. The City will pay all additional costs incurred for the delay of work to the 2024 time of year window.
 - b. The City or its Engineer may require the Contractor to furnish cost data to justify this portion of the bid if the City or its Engineer believes that the percentages do not bear a reasonable relation to the cost of the work in this contract.

SECTION IV TECHNICAL SPECIFICATIONS CHANGES:

SECTION 316216.13 STEEL PIPE PILES – SECTION 1.3 - ADD

1.3 SUBMITTALS

- C. Prior to mobilization to the site, the Contractor shall submit a positioning plan detailing appropriate methods to maintain horizontal control to ensure that all piles are installed in accordance with the tolerances set forth in the Contract Documents. This plan shall be subject to review and approval by the Engineer.

SECTION VI PROJECT PLANS CHANGES

**PETALUMA TURNING BASIN FLOATING DOCK DESIGN & FABRICATION PLANS
– REVISE**

Questions and Answers:

Q1: *What Date Shall the bidders assume the float docks be delivered to the site?*

A1: Anticipated delivery schedule shall be provided to the contractor upon award of contract. The contractor shall assume that floats will not be delivered prior to the installation of piles.

Q2: *If the proposed date isn't achieved what are the ramifications of that?*

A2: Please refer to Optional Bid Item #4 on the Revised Bid Schedule (Attachment 1).

Q3: *In the event the city does not receive their permits in time for the install, how will the contractor get paid for mobilization, drawings etc.?*

A3: No mobilization shall be complete until permits are issued. Notice to proceed will not be issued until permits are issued. Currently permits are anticipated no later than September 2023.

Q4: *The bidders are pricing this job assuming the city will have all permits in time, passing other job opportunities to fulfill this bid. In the event the city does not have all permits in place, will the city add an optional bid item for damages and delay cost postponing the install until June of 2024?*

A4: Please see the above response to Question Q3.

Q5: *Due to the short turn-around time for RFI's we respectfully request an extension to have all RFI's vetted and answered.*

A5: See revised Notice Inviting Bidders.

Q6: *We would like to respectfully request a 3-week bid extension.*

A6: Please see the above response to Question Q5.

Q7: *On what date can the contractor assume that the City will have all permits in place?*

A7: Permits are anticipated to be obtained prior to the issuance of the Notice to Proceed.

Q8: *It was told at the pre-bid meeting that the City is responsible for ALL permits. Can the bidder assume that the city is responsible for ALL permits.*

A8: The City is in the process of obtaining the required regulatory permits for the project work. The Contractor shall be responsible for obtaining any additional permits required for their work, including but not limited to building, electrical, and grading permits.

Q9: *Currently the existing utilities that run from west dock to the small craft center docks. Since utilities are not included in this bid, shall the bidder include demolition of the existing utilities in the demolition portion of the bid? The bidder cannot protect in place since existing gangway and timber docks need to be demo and disposed of. Please advise.*

A9: Contractor shall include demolition of the existing PSCC utilities in the demolition portion of their bid.

Q10: *Sheet G-002, General notes, 5: "All In-Water work shall be completed by November 30, 2023, and the overall timeline of completion is 90 work days from NTP. Please define what "All" in water work is. Just the pile driving? Or All other in water work as well?*

A10: “All in water work” refers to any activities occurring within or directly touching the water’s surface or within the limits of the Annual High Tide Line (AHTL). Time of year window shall take precedence over project working days for all in-water work. All water work shall be completed by November 30th in accordance with the anticipated time of year window.

Q11: *The plans and specification call for a “Solar Marine Grade Waterproof Dock Light”. Can the city specify the exact light to bid? It is our experience that these types of lights do not last more than 1-year and we highly recommend that these be removed from the bid.*

A11: Solar Marine Grade Waterproof Dock Lights shall be in accordance with the requirements of Section VI, Project Plans, Sheet G-003 “Notes, Abbreviations, and Symbols (2 of 3)” and Sheet S-502 Detail 3. An acceptable product is the *Taylorbrite Marine Grade Solar Deck Lite* made by Taylor Made or equal as approved by the Engineer.

Q12: *If the technical specifications differ from the plans, which shall prevail?*

A12: Please refer to Section II – General Conditions, Article III Part 3.4A and Section III – Special Provisions, Part 3-2 of the Project Specifications for the Order of Precedence of Contract Documents.

Q13: *Section 099713, Coating of Steel Waterfront Structures: Can the City clarify where this is applicable?*

A13: Section 099713, Coating of Steel Waterfront Structures applies to all structural steel subject to the marine environment including but not limited to the steel pipe piles.

Q14: *Plans, Sheet G-004, 5.: “Placement of Exclusion fencing should be performed under the direction of a biologist to ensure complete avoidance of sensitive riparian and wetland habitat.” This section mentions a biologist is required. Is this Biologist somebody the city is providing or up to the bidder to provide?*

A14: The Contractor shall be responsible for providing a biologist to oversee the placement of exclusion fencing if deemed necessary by the permitting agencies.

Q15: *Plans, Sheet S-301 The plans do not show any detail on how the wrought iron fence gets mounted to the concrete. Can the city provide connection details showing how these are anchored/mounted to the concrete?*

A15: Contractor shall submit the proposed fencing to the engineer for review and acceptance. Fencing shall be mounted and installed according to the approved manufacturer's written instructions/requirements.

Q16: *Plans, Sheet S-301 This section shows a security gate. Can the city provide the style of locking mechanism for the gate, ie..key fob, key lock or touchpad?*

A16: The locking mechanism will be installed by others and is not part of the scope of work for this project.

Q17: *Plans, Sheet S-501, detail E The U-bar detail of this section is vague. Can the city provide more detail?*

A17: The concrete reinforcement shall consist of #5 bars placed vertically and horizontally at 12-inches o.c. Provide a minimum concrete cover of 3-inches. The Contractor shall provide a shop drawing of all reinforcing details for review and approval by the Engineer.

Q18: *Plans, Sheet S-501, Detail E Is there any water protection necessary for this section? If so, please clarify.*

A18: The Contractor shall furnish concrete suitable for underwater placement. Contractor shall submit concrete mix design for review and acceptance. No water protection is deemed necessary. Contractor shall use appropriate means and methods to ensure adjacent water bodies are not impacted.

Q19: *Sheet S-301, Detail B, East Gangway The plans show a 6" clearance from the bottom of the gangway to the 8" concrete slab based on a MLLW Level. We respectfully don't believe this will work since the water level goes below MLLW and would hit the slab on a lowest observed low water level. Please advise.*

A19: Foth has reviewed this condition and ensured that the clearance as designed is adequate.

Q20: *Specifications, Bid Item 6, 2.7, A: Install 16" dia. X 60' Long x 3/8" Steel. There are conflicting dimensions in the specifications and plans. Section 2.13 A, Show the pile at 5/8" thick vs 3/8" and the plans sheet S-101 show the piles at 50ft long vs 60ft long. Please clarify.*

A20: Pile length is 50' and w.t. is 3/8".

Q21: *Sheet G-004, Environmental Impacts, 14.) "The Dock will arrive via barge to minimize the impacts to the riparian zone" The contract with Bellingham Marine is to deliver the floating docks to the site but does not include offloading. Please clarify the offloading location for this bid. The install documents say that the docks are coming in via barge. Please clarify.*

A21: Delivery is the responsibility of Bellingham Marine. All coordination for offloading and receipt of delivery of floats shall be handled under Bid Item No. 2 "Coordination and Receipt of Concrete Float Delivery with Bellingham Marine".

Q22: *Per plans sheet S-502 detail 4, marine mattress detail shows the marine mattress at 5' wide and Sheet S-101 shows the marine mattress at 15' wide. Can the city please clarify how wide the marine mattress is?*

A22: The marine mattress should cover a 15' wide area as shown in S-101. Sheet S-502, shows a 'typical detail' for a marine mattress unit (one unit) of 5' wide +/-, meaning that, three (3) units will be laid side by side. The Contractor shall submit their proposed marine mattress product and layout plan to the Engineer for review and approval.

Summary of Changes: Notice Inviting Bidders, Bid Form, Bid Schedule, Section 012205 – Measurement and Payment, and Project Plans. All other items in the bid documents shall remain unchanged.

City of Petaluma,



**Jonathan Sanglerat, P.E.
Engineering Manager
Public Works & Utilities Department**

A signed copy of this Addendum and the attached acknowledgment form shall be attached to the bid proposal. Failure to do so may cause rejection of your bid as being non-responsive.

BID SCHEDULE

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Price
1	Mobilization/Demobilization	LS	1		
2	Coordination and Receipt of Concrete Float Delivery with Bellingham Marine	LS	1		
3	Demolition, Removal & Disposal of Existing Timber Floating Dock System, Timber & Steel Piles, Metal Gangways, and Gangway Structures	LS	1		
4	Excavation, Removal, & Disposal of East Gangway Foundation	LS	1		
5	Pile Probing	LS	1		
6	Install 3,800 sf of Concrete Floating Docks and Water/Power Pedestals	LS	1		
7	Furnish & Install 16-in Dia. x 50-ft long x 3/8-in W.T. Steel Pipe Piles	EA	14		
8	Furnish & Install Concrete Gangway Foundations & Ramp	CY	32		
9	Install Metal Gangways	EA	2		
10	Furnish & Install 8-ft Tall Iron Gangway Fencing	LF	100		
11	Bank Restoration, Seeding, and Furnish & Install East Bank Marine Mattress	LS	1		
12	Remove, Store, and Re-Install PSCC Gate and Gangway	LS	1		
Total Base Bid				\$	\$

OPTIONAL BID ITEMS

Item No.	Description	Unit	Unit Price
1	10' Rock Socketing of Steel Piles	EA	
2	Furnish & Install Additional 16-in Dia x 3/8-in W.T. Steel Pipe Pile	LF	
3	Furnish & Install Gangway Gates	EA	
4	2024 Installation of Concrete Floating Docks, Water/Power Pedestals, Metal Gangways, And Re-Install PSCC Gate/Gangway (Conditional Based on Permit Requirements And Delivery Schedule).	LS	
5	Project Start Delay to June 2024	LS	

***Note:** In case of error in extension of price into the total price column, the unit price will govern.

Total Amount of Base Bid (written in words) is: _____ _____ Dollars and _____ Cents. In the event of discrepancy between words and figures, the words shall prevail. \$ _____ _____ Figures

The award of the contract shall be awarded to the lowest qualified price of the total of Base Bid items. Options Bid items should NOT be included in the Base Bid Price.

Address of Bidder

Signature of Bidder

City

Name of Bidder (Print)

Telephone Number of Bidder

Fax Number of Bidder

Contractor's License Number

License's Expiration Date

Addendum Acknowledgement

Addendum No. 1 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 2 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 3 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 4 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 5 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 6 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 7 Signature Acknowledging Receipt: _____ Date: _____

ISSUED FOR BID

City of Petaluma, California

PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT

150 WELLER STREET, PETALUMA, CA 94952

ISSUED FOR BID - ADDENDUM 2



LOCATION MAP
SCALE: N.T.S.

SHEET INDEX

- G-001 TITLE AND SHEET INDEX
- G-002 NOTES, ABBREVIATIONS, & SYMBOLS (1 OF 3)
- G-003 NOTES, ABBREVIATIONS, & SYMBOLS (2 OF 3)
- G-004 NOTES, ABBREVIATIONS, & SYMBOLS (3 OF 3)
- C-101 EXISTING AND DEMOLITION SITE PLAN
- C-301 EXISTING GANGWAY PROFILES
- S-101 FLOATING DOCK CONFIGURATION
- S-102 EAST AND WEST GANGWAY PARTIAL PLANS
- S-301 EAST AND GANGWAY PROFILES
- S-501 SECTIONS AND DETAILS (1 OF 2)
- S-502 SECTIONS AND DETAILS (2 OF 2)
- S-503 FLOATING DOCK DETAILS

MAYOR
KEVIN MCDONNELL

COUNCIL MEMBERS
BRIAN BARNACLE
JANICE CADER-THOMPSON, DIST. 1
MIKE HEALY
KAREN NAU, DIST. 3
DENNIS POCEKAY
JOHN SHRIBBS, DIST. 2

CITY MANAGER
PEGGY FLYNN

DIRECTOR OF PUBLIC WORKS & UTILITIES
CHRISTOPHER BOLT

ALL PROJECT PLANS HAVE BEEN PREPARED AND REVIEWED TO COMPLY WITH CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND/OR THE CALIFORNIA BUILDING STANDARDS CODE (CBCS).

THESE PROJECT PLANS CONTAIN ELEMENT(S) THAT ARE NOT "TECHNICALLY FEASIBLE" AND/OR CAN'T MEET THE APPLICABLE CBCS BECAUSE IT WOULD CREATE AN "UNREASONABLE HARDSHIP." PLEASE SEE THE WRITTEN ANALYSIS SUPPORTING THIS DETERMINATION FILED UNDER THE PROJECT FILE.

DESIGNED BY _____

SIGNATURE _____ DATE _____

	SIGNATURE	DATE
CITY ENGINEER		
ENGINEERING MANAGER		
FIRE MARSHAL		
PARKS		
PLANNING		
POLICE		
UTILITY MANAGER		

DATE: JUNE 2023
DESIGNED BY: AMIAK
DRAWN BY: OFF/CM
CHECKED BY: WPR

PROJECT NO.
C14402010

CITY OF PETALUMA
 PUBLIC WORKS & UTILITIES
 202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954
 PH: 707-778-4546 FAX: 707-778-4508



PETALUMA TURNING BASIN FLOAT, PILE
 AND GANGWAY REPLACEMENT
 TITLE AND SHEET INDEX

SHEET
G-001
1 OF 12

DESIGN CRITERIA

1. THE COMPLETED STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE OF THE STATE OF CALIFORNIA, AS APPLICABLE.
2. THE COMPLETED STRUCTURE HAS BEEN DESIGNED TO WITHSTAND THE FOLLOWING DESIGN LIVE LOADS APPLIED IN CONJUNCTION WITH DESIGN DREDGE/MUDLINE ELEVATIONS INDICATED ON THE CONTRACT DRAWINGS:

STEEL PILES:
 DESIGN MUDLINE ELEVATION: -9 FEET (MLLW)
 STEEL FLOAT PILES TIP EL.: -35.3 FEET (MLLW)

CONCRETE:
 CAST-IN- PLACE CONCRETE: $f_c = 4,500$ PSI
 CONCRETE EXPOSURE: CLASSES F2, S0, W1, C1
 W/CM RATIO: 0.45
 REINFORCING BARS: ASTM A615 GR. 60
 EPOXY COATING: ASTM A775
 WELDED WIRE REINFORCEMENT ASTM 1064
 PROVIDE THE FOLLOWING COVER FOR REINFORCEMENT:
 CAST AGAINST EARTH: 3 IN
 EXPOSED TO EARTH, WEATHER, OR WATER:
 NO. 6 THROUGH NO. 18 BAR 3 IN
 NO. 5 BAR, W31, WIRE & SMALLER 3 IN

3. TIDAL DATUM INFORMATION IS TAKEN FROM DATUM OFFSETS TAKEN FROM NOAA V-DATUM CONVERSION STATION ID: 9415252, PETALUMA RIVER ENTRANCE CA, DATED SEP 12, 2016.
4. THE FOLLOWING REFERENCE DOCUMENTS WERE USED IN CONJUNCTION WITH THE SITE INFORMATION:

PETALUMA MARINA TURNING BASIN DOCK INSPECTION REPORT, DATED SEPTEMBER 2021, BY FOTH AND VAN DYKE & ASSOCIATES, INC.

5. THE STRUCTURES HAVE BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS COMPLETE. THE STABILITY OF THE STRUCTURES PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO RELATED ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, ERECTION METHODS, ERECTION SEQUENCE, CONNECTIONS, TEMPORARY BRACING, FORMS, SHORING, USE OF EQUIPMENT, AND SIMILAR CONSTRUCTION PROCEDURES. REVIEW OF CONSTRUCTION BY THE OWNER AND ENGINEER OF RECORD IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS ONLY. LACK OF COMMENT BY THE OWNER AND ENGINEER OF RECORD WITH REGARD TO CONSTRUCTION PROCEDURES SHALL NOT BE INTERPRETED AS APPROVAL OR ACCEPTANCE OF SUCH PROCEDURES.

GENERAL NOTES:

1. POSSESSION AND USE OF THE MATERIAL CONTAINED ON THESE DRAWINGS IS GRANTED ONLY IN CONNECTION WITH ITS USE AS IT RELATES TO THE TITLED PROJECT, ANY OTHER USE, REPRODUCTION OR DISCLOSURE OF THE INFORMATION CONTAINED HEREON IS EXPRESSLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF FOTH.
2. IF, DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR FINDS A CONFLICT, ERROR, OR DISCREPANCY IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SO REPORT TO THE ENGINEER OF RECORD IN WRITING AT ONCE. BEFORE PROCEEDING WITH THE WORK AFFECTED THEREBY, THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION OR CLARIFICATION FROM THE ENGINEER OF RECORD. WORK DONE BEFORE THE ENGINEER OF RECORD RENDERS HIS DECISION IS AT THE CONTRACTOR'S SOLE RISK.

3. THE WORK SHALL BE PERFORMED IN A GENERAL SEQUENCE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SEQUENCES AND PROCEDURES TO BE USED.
4. THE CONTRACTOR SHALL NOTE ALL APPROVED CHANGES AND OTHER OCCURRENCES AND SUBMIT A FULL SIZE COMPLETE "RECORD DRAWING" SET NOTED AND DATED ON THE DRAWINGS TO THE PROJECT ENGINEER PRIOR TO ACCEPTANCE OF THE WORK.
5. ALL IN-WATER WORK SHALL BE COMPLETED BY NOVEMBER 30, 2023.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL MATERIAL AND WORKMANSHIP FULLY CONFORMS TO THE SPECIFICATIONS, STANDARDS, AND ORDINANCES OF THE CITY OF PETALUMA.
7. STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE OF THE STATE OF CALIFORNIA. WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL PERMIT CONDITIONS.
8. SECTIONS AND DETAILS APPLY TO THE SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
9. THE BATHYMETRIC DATA SHOWN ON THIS PLAN WAS GATHERED ON OCTOBER 19, 2022.
10. THE DATUM IS DEFINED RELATIVE TO THE MEAN LOWER LOW (MLLW) WATER SURFACE ELEVATION TIME SERIES FROM THE NOAA PETALUMA RIVER ENTRANCE, STATION# 9415252.
11. ANNUAL HIGH TIDE LINE (AHTL) IS FROM THE NOAA STATION #9414252 ON 1/21/23.
12. COORDINATES ARE BASED ON NAD 83 STATE PLANE CALIFORNIA ZONE II.
13. BATHYMETRIC DATA IS REFERENCED TO PRIMARY BM "USACE PK NAIL" REPORTED AT +10.0 FT. MLLW, AND LOCATED THE PETALUMA MARINA IN PETALUMA, CA.
14. THE HYDROGRAPHIC SURVEY SYSTEM COMPRISED OF A 200KHZ SINGLE BEAM, A 240KHZ RESON 8101 MULTIBEAM, AND LEAD LINES, AS WELL AS HYPACK ACQUISITION SOFTWARE.
15. RTK-GPS POSITION CORRECTIONS WERE SUPPLIED BY KEYNET.
16. SHORELINE, BRIDGES, PIERS, ETC. ARE SCALED FROM ORTHOIMAGERY. ORTHOIMAGERY AND SCALED DATA IS APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.
17. TOPOGRAPHIC INFORMATION SHOWN IS FROM A SURVEY PERFORMED BY CINQUINI & PASSARINO, INC. ON MAY 18, 2023.
18. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH FOTH & VAN DYKE AND ASSOCIATES, INC. FOR MORE DETAILED INFORMATION.

BATHYMETRIC SURVEY NOTES:

1. PROJECT NAME: PETALUMA TURNING BASIN 2022 AD SURVEY
2. PROJECT NUMBER: 20P015.00
3. SURVEY DATE: OCTOBER 19, 2022
4. SURVEYOR: BAY MARINE SERVICES
5. TRANS./FATH.: 200KHZ SINGLE BEAM, A 240KHZ RESON 8101 MULTIBEAM
6. WEATHER COND: 75°, PARTLY SUNNY
7. PROJECT DATUM: MLLW
8. COOR. SYSTEM: NAD83, CALIFORNIA STATE PLANE ZONE II

9. BENCHMARK: DATA IS REFERENCED TO PRIMARY BM "USACE PK NAIL" REPORTED AT +10.0 FT. MLLW, AND LOCATED THE PETALUMA MARINA IN PETALUMA, CA.
10. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF HYDROGRAPHIC SURVEYS PERFORMED ON THE DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATING THE SEABED CONDITIONS AT THAT TIME.

TOPOGRAPHIC SURVEY NOTES:

1. PROJECT NAME: PETALUMA TURNING BASIN DOCKS
2. PROJECT NUMBER: 10154-23
3. SURVEY DATE: MAY 18, 2023
4. SURVEYOR: CINQUINI & PASSARINO, INC.
5. PROJECT DATUM: MLLW
6. COOR. SYSTEM: NAD83, CALIFORNIA STATE PLANE ZONE II
7. BENCHMARK: B.S. CONTROL POINT NUMBER 230. ELEVATION 15.98 FEET NAVD88.

CONCRETE FLOATS:

1. THE CONCRETE FLOATING DOCK SYSTEM WILL BE PROVIDED TO THE CONTRACTOR BY OWNER FOR INSTALLATION. CONTRACTOR SHALL COORDINATE WITH CONCRETE FLOAT SUPPLIER FOR DELIVERY, INSTALLATION METHODS, AND ANY ADDITIONAL INFORMATION REQUIRED FOR INSTALLATION OF THE CONCRETE FLOATS.
2. THE CONTRACTOR WILL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF DELIVERY OF CONCRETE FLOATS AS PROVIDED BY THE OWNER. FLOATS WILL BE DELIVERED VIA BARGE TO THE PROJECT SITE. CONTRACTOR SHALL RECEIVE DELIVERY OF FLOATS AND GUARANTEE THAT THEY WILL BE HANDLED IN SUCH A MANNER AS TO NOT INDUCE STRESSES WHICH WILL DAMAGE THE MATERIALS AND STORED IN A SAFE MANNER WITHIN DESIGNATED AREAS PROVIDED AT THE SITE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND RECEIVING THE SHIPMENT OF FLOATS FROM BELLINGHAM MARINE, WHERE THEY SHALL BE TRANSFERRED, STORED AND TAKEN INTO THE CONTRACTOR'S POSSESSION FOR INSTALLATION.
4. THE CONTRACTOR SHALL LIFT AND SUPPORT PRECAST FLOATS AT THE LIFTING AND SUPPORTING POINTS INDICATED ON THE MANUFACTURER'S APPROVED SHOP DRAWINGS.
5. THE CONTRACTOR SHALL STORE PRECAST FLOATS OFF THE SEPARATE STACKED PRECAST FLOATS BY BATTENS ACROSS THE FULL WIDTH OF EACH BEARING PROTECT FROM WEATHER, MARRING, DAMAGE, AND OVERLOAD.
6. PRIOR TO ERECTION, AND AGAIN AFTER INSTALLATION, PRECAST FLOATS SHALL BE CHECKED FOR DAMAGE, SUCH AS CRACKING, SPALLING, AND HONEYCOMBING. PRECAST FLOATS THAT DO NOT MEET THE SURFACE REQUIREMENTS SHALL BE REPAIRED PER MANUFACTURER'S APPROVED RECOMMENDATIONS.
7. PRECAST FLOATS SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED SHOP DRAWINGS. BRACE PRECAST FLOATS, UNLESS DESIGN CALCULATIONS SUBMITTED WITH THE SHOP DRAWINGS INDICATE BRACING IS NOT REQUIRED. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM CONSTRUCTION LOADS.
8. PROVIDE ANCHORAGE FOR FASTENING WORK IN PLACE. CONCEAL FASTENERS WHERE PRACTICABLE. MAKE THREADED CONNECTIONS UP TIGHT AND NICK THREADS TO PREVENT LOOSENING.


SELECTIVE DEMOLITION & DISPOSAL:

1. SELECTIVE DEMOLITION AND DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL PERMIT AND BUILDING CODE REQUIREMENTS.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THOSE STRUCTURES AND DERELICT COMPONENTS AS INDICATED ON THE DRAWINGS.
3. SELECTIVE DEMOLITION INCLUDES BUT IS NOT LIMITED TO REMOVAL AND REUSE (WHERE POSSIBLE) OF EXISTING MATERIALS, UTILITIES, AND OTHER COMPONENTS ESSENTIAL FOR A COMPLETE PROJECT.
4. THE CONTRACTOR SHALL TAKE REASONABLE CARE IN REMOVING ELEMENTS SELECTED TO BE DEMOLISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DAMAGE OR DESTRUCTION BY THE CONTRACTOR TO EXISTING ELEMENTS DESIGNATED TO REMAIN SHALL BE REPAIRED OR REPLACED IN-KIND AT THE DISCRETION OF THE OWNER AT NO ADDITIONAL COST.
5. ITEMS TO BE REMOVED AND REUSED SHALL BE PLACED IN A STAGING AREA ACCESSIBLE FOR INSPECTION BY THE OWNER AND/OR ENGINEER.
6. PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION, THE CONTRACTOR SHALL SUBMIT A DISPOSAL PLAN FOR ITEMS TO BE DEMOLISHED. DEMOLITION MATERIAL DESIGNATED BY THE OWNER TO BE REMOVED FROM THE SITE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE DEBRIS DISPOSAL PLAN SHALL ACKNOWLEDGE THIS OWNERSHIP AND SHALL IDENTIFY THE MEANS AND METHODS AND FINAL DISPOSITION FOR DISPOSAL MATERIALS.
7. PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR SHALL CLEARLY MARK THE LIMITS OF THE DEMOLITION FOR REVIEW AND APPROVAL BY THE OWNER AND ENGINEER.
8. COMPLETELY REMOVE ITEMS DESIGNATED LEAVING SURFACES CLEAN, SOUND, AND READY TO RECEIVE NEW MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS.
9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING THE COURSE OF DEMOLITION.
10. THE CONTRACTOR SHALL SUBMIT A DISPOSAL CERTIFICATE TO THE OWNER'S REPRESENTATIVE CERTIFYING LEGAL AND PROPER DISPOSAL.

DATE: JUNE 2023
 DESIGNED BY: AMIAK
 DRAWN BY: OFF/CM
 CHECKED BY: WPR

PROJECT NO.
 C14402010

CITY OF PETALUMA
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT NOTES, ABBREVIATIONS, & SYMBOLS

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TEMPORARY WORK:

- LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK THAT, UPON COMPLETION, ARE NOT A PART OF THE WORK, SHALL BE FURNISHED, INSTALLED, AND SUBSEQUENTLY REMOVED FROM THE SITE BY THE CONTRACTOR.
- TEMPORARY WORK SHALL BE SUBJECT TO THE REQUIREMENTS OF THE STATE AND APPLICABLE LOCAL BUILDING CODES.
- DURING EXECUTION OF THE WORK, THE CONTRACTOR IS REQUIRED TO INSTALL AND MAINTAIN REQUIRED SEDIMENTATION AND EROSION CONTROL MEASURES TO PROTECT ADJACENT WATERWAYS, STREETS, AND PROPERTIES. MEASURES WHICH MAY INCLUDE BUT NOT BE LIMITED TO TEMPORARY BERMS, HAY BALES, SILT FENCES, CONTAINMENT BOOMS, AND TURBIDITY CURTAINS. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN TEMPORARY CONTROLS DURING CONSTRUCTION. TEMPORARY MATERIALS AND EQUIPMENT SHALL CONFORM TO REQUIREMENTS FOR TEMPORARY WORK.

GEOTECHNICAL NOTES:

- SOIL BORINGS WERE COMPLETED IN MARCH OF 2023 BY MILLER PACIFIC ENGINEERING GROUP. BORING INFORMATION IS PROVIDED AS AN ATTACHMENT TO THE CONTRACT DOCUMENTS.

FIELD-PROBING:

- THE CONTRACTOR SHALL CONDUCT A FIELD-PROBING PROGRAM, PRIOR TO PILE INSTALLATION, AT THE APPROXIMATE LOCATION OF THE PROPOSED FLOAT PILES. THIS PROBING PROGRAM SHALL DETERMINE IF THE PROPOSED PILE LOCATION SHALL REQUIRE RELOCATION OR IF ROCK SOCKETING SHALL BE REQUIRED IN ORDER TO REACH THE TIP ELEVATION SPECIFIED ON THE PLANS.
- THE CONTRACTOR'S PROBING PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO MOBILIZATION TO THE SITE.
- UPON COMPLETION OF THE PROBING PLAN, THE CONTRACTOR SHALL SUBMIT RESULTS TO THE ENGINEER FOR CONFIRMATION OF ROCK SOCKET REQUIREMENTS.

PILE DRIVING:

- STEEL PILES SHALL BE DRIVEN WITH AN VIBRATORY HAMMER TO A MINIMUM EMBEDMENT LENGTH AS LISTED BELOW:
STEEL PILES: 16"Ø X 0.375" WT PIPE PILES
TIP ELEVATION: -35.3 FT
TOP ELEVATION: 15.0 FT
- DRIVE PILES WITH AN AIR OR DIESEL OPERATED VIBRATORY HAMMER, WITH SUFFICIENT ENERGY AND ENERGY TRANSFER CHARACTERISTICS TO DRIVE THE PILES TO THE REQUIRED CAPACITY AND TOE ELEVATIONS WITHOUT DAMAGING THE PILE HEAD. USE CAUTION NOT TO INJURE THE PILES BY OVER DRIVING AS WOULD BE INDICATED BY REBOUND OF HAMMER OR STAGGERING OF PILE. CUT OFF HEADS OF PILES ACCURATELY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AFTER COMPLETION OF DRIVING.
- DRIVE THE PILES STRAIGHT AND TRUE AT INDICATED LOCATIONS, WITH DEVIATION FROM THE LONGITUDINAL AXIS OF NOT MORE THAN 1/4 INCH PER FOOT.
- LOCATE THE PILES WITHIN 3 INCHES OF THE POSITIONS INDICATED ON THE DRAWINGS.

5. THE CONTRACTOR SHALL ASSUME THAT FLOATS WILL NOT BE DELIVERED PRIOR TO THE INSTALLATION OF THE PILES.

- CONTINUOUSLY DRIVE EACH PILE TO REACH THE CAPACITY AND FULL EMBEDDED LENGTH CALLED FOR ON THE DRAWINGS.
- WITHDRAW PILES THAT ENCOUNTER UNDERGROUND OBSTRUCTIONS SUFFICIENT TO IMPEDE PILE DRIVING. REDRIVE AS CLOSE AS POSSIBLE TO ORIGINAL POSITION, SUBJECT TO REVIEW OF THE OWNER. REMOVE PILES WHICH SPLIT, BROOM, BREAK OR DRIVE OUT OF LINE. DRIVE ANOTHER PILE IN ITS PLACE. PROVIDE AND MAINTAIN NECESSARY LIGHTING AND BARRIERS TO ADEQUATELY ASSURE PUBLIC SAFETY. PROVIDE ADEQUATE SAFEGUARDS TO PROTECT FROM DAMAGE IMPROVEMENTS ON THE WORK SITE AND ON ADJACENT PROPERTIES.
- USE SUITABLE CUSHIONS OR DRIVING HEADS TO AVOID DAMAGE TO THE PILES, DEVELOPING PROPER TOTAL DRIVING ENERGY, AND DIRECTING THE ENERGY ALONG THE LONGITUDINAL CENTER OF GRAVITY OF THE PILE.
- DRIVE PILES TO THEIR FULL PENETRATION WITHOUT BENDING, RUPTURING, OR SEVERELY DAMAGING THE PILES. IF FAILURE IN THE ABOVE RESPECTS IS ENCOUNTERED, PULL THE PILE AND DRIVE A NEW PILE AT NO ADDITIONAL COST TO THE OWNER.
- JETTING TO ASSIST PENETRATION WILL NOT BE PERMITTED UNLESS ACCEPTED BY THE ENGINEER OF RECORD. PRE-DRILLING WILL NOT BE PERMITTED UNLESS ACCEPTED BY THE ENGINEER OF RECORD, WHEREBY ACCEPTED PRE-DRILLING TO ASSIST PENETRATION MAY BE USED WHERE EXTREME DRIVING RESISTANCE IS ENCOUNTERED, OR WHERE VIBRATIONS FROM DRIVING MAY BE DETRIMENTAL TO ADJACENT STRUCTURES.
- WHERE PILES ARE PUSHED UP BY PRESSURE FROM DRIVING OF ADJACENT PILES, RE-DRIVE AS REQUIRED AND AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) ADDITIONAL 16" Ø X 3/8" W.T. STEEL PIPE PILE ON SITE TO ACCOMODATE ANY POTENTIAL SPLICING REQUIRED AS PART OF THIS WORK.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE DRIVING RECORD WITH THE DATE OF FINAL INSTALLATION AND TIP ELEVATIONS. THIS RECORD SHALL BE SUBMITTED WEEKLY AND SIGNED BY A REPRESENTATIVE OF THE CONTRACTOR. THE CONTRACTOR SHALL KEEP AN ACCURATE SET OF PILE RECORDS INDICATING PILE NUMBER, PILE TYPE AND INSTALLED LENGTH, TYPE OF IMPACT OR VIBRATORY HAMMER AND RATED ENERGY, DATE OF INSTALLATION, FINAL TIP ELEVATION, AND CONTRACTOR'S REPRESENTATIVE NAME AND SIGNATURE.

STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL COMPLY WITH THE "STEEL CONSTRUCTION MANUAL", LATEST EDITION, PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- WELDING SHALL CONFORM TO THE "STRUCTURAL WELDING CODE - STEEL", AS ADOPTED BY THE AMERICAN WELDING SOCIETY (AWS D1.1). A WELDER CERTIFIED IN ACCORDANCE WITH AWS STANDARDS SHALL PERFORM WELDING.
- WELDING ELECTRODES SHALL BE E70XX AND COMPLY WITH AWS A5.1 AND AWS A5.5.
- STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A 572, GRADE 50. STEEL PLATES SHALL CONFORM TO ASTM A572, WITH 50 KSI YIELD.
- GALVANIZING SHALL CONFORM TO ASTM A 123 OR ASTM A 153, AS APPLICABLE.

- STEEL SHAPES AND PLATES, SHALL BE EPOXY COATED. STEEL HARDWARE SHALL BE HOT DIPPED GALVANIZED.
- CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE STEEL FABRICATOR EXCEPT FOR THOSE SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.
- ALL HARDWARE AND CONNECTION TO BE HOT DIPPED GALVANIZED, UNLESS OTHERWISE NOTED.

PROTECTIVE COATING:

- MATERIAL USED FOR FACTORY EPOXY COATING OF ALL SCHEDULED SURFACES SHALL BE BAR_RUST 235 MULTI-PURPOSE EPOXY COATING AS MANUFACTURED BY DEVOE COATINGS OR EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
- FIELD TOUCH_UP COATING SHALL BE IDENTICAL TO FACTORY COATING AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- SURFACES SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE PROTECTIVE COATING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS.
- THE PROTECTIVE COATING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COATING IS TO BE APPLIED IN TWO COATS TO ACHIEVE AN OVERALL DRY FILM THICKNESS OF 15 MILS.
- ALL HOLIDAYS OR OTHER IMPERFECTIONS IN THE COATING SHALL BE REMOVED OR REPAIRED AT THE CONTRACTORS EXPENSE PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- PROTECTIVE COATING TOP COAT OF SURFACES THAT WILL BE SUBMERGED IN SALT WATER SHALL BE BLACK UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR BY THE OWNER.
- SURFACES THAT WILL BE EXPOSED TO SUNLIGHT AND ABOVE THE WATER SHALL BE COATED WITH A MINIMUM OF 3 MILS OF A COMPATIBLE POLYURETHANE COATING. COLOR OF THIS TOP COAT SHALL BE COORDINATED WITH OWNER.

NON-SHRINK GROUT:

- GROUT SHALL BE CEMENT-BASED, NON-METALLIC, NON-SHRINK GROUT CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- GROUT SHALL BE TESTED BY AN INDEPENDENT TESTING LABORATORY. GROUT SAMPLES SHALL BE TAKEN EVERY DAY OF GROUTING.

TOLERANCE OF WALKING SURFACES

- THE CONTRACTOR SHALL ENSURE A LEVEL TRANSITION BETWEEN ALL WALKING SURFACES.
- THE MAXIMUM PERMISSIBLE ELEVATION CHANGE BETWEEN WALKING SURFACES SHALL BE 1/4 INCH THAT SHALL INCLUDE THE SUM OF ALL FABRICATION AND INSTALLATION TOLERANCES OF ALL STRUCTURAL COMPONENTS THAT MAY INFLUENCE THE FINAL WALKING SURFACE INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PILES, PILE CAPS, DECKING, SHIMS, GROUT, ETC.
- DECKING ERECTION IS SUBJECT TO SPECIAL INSPECTION TO ENSURE THAT A 1/4 INCH MAXIMUM HEIGHT DIFFERENTIAL IS MAINTAINED AT THE TRANSITION BETWEEN ALL WALKING SURFACES. ANY TRANSITION BETWEEN WALKING SURFACES THAT IS GREATER THAN 1/4 INCH IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S SOLE EXPENSE.

UTILITIES

- CONTRACTOR SHALL SUPPLY ALL NECESSARY TEMPORARY UTILITIES FOR CONSTRUCTION INCLUDING WATER, POWER, AND LIGHTING.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 800-642-2444 AT LEAST 2 WORKING DAYS (NOT INCLUDING THE DATE OF NOTIFICATION) BUT NOT MORE THAN 14 DAYS PRIOR TO THE START OF ANY EXCAVATION.
- CONTRACTOR SHALL VERIFY CONDITION OF ALL EXISTING UTILITIES PRIOR TO REMOVAL AND REPLACEMENT. REQUEST FOR APPROVAL TO SHUTOFF OR REMOVE ANY UTILITIES SHALL BE SUBMITTED TO THE ENGINEER 7 DAYS PRIOR TO WORK. NO UTILITIES SHALL BE REMOVED OR SHUT OFF WITHOUT PRIOR APPROVAL.
- ANY UTILITIES TEMPORARILY REMOVED OR RELOCATED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR AFTER CONSTRUCTION AND TESTED AFTER RE-INSTALLATION.
- THE CITY OF PETALUMA SHALL BE NOTIFIED IN A TIMELY MANNER IN ORDER THAT THE PIPE AND CONNECTIONS CAN BE SCHEDULED FOR INSPECTION.
- SOLAR MARINE-GRADE, WATERPROOF DOCK LIGHTS SHALL BE INSTALLED ON BOTH SIDES OF THE FLOATING DOCK UNITS AT APPROXIMATELY 4'-0" O.C. THE DOCK LIGHTS SHALL HAVE A STEEL OR ALUMINUM FRAME AND BE INSTALLED IN A MANNER NOT TO CONFLICT WITH CLEATS.
- DOCK LIGHT LOCATION PLAN AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR ACCEPTANCE AND APPROVAL.

WROUGHT IRON FENCING AND GATES

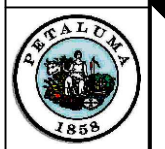
- STYLE OF WROUGHT IRON FENCING AND GATES SHALL MATCH THE STYLE OF EXSISTING FENCING ALONG THE PETALUMA RIVER PLAZA ON THE WEST SIDE OF THE TURNING BASIN.
- ALL STEEL MATERIAL FOR FENCE AND GATE SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-787 AND ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
- CAST IRON USED FOR FABRICATION OF GATE SHALL CONSIST OF DUCTILE IRON AND BE GALVANIZED PRIOR TO POWDER COATING.
- ALL HARDWARE SHALL BE GALVANIZED.
- FENCING AND GATES SHALL BE POWDER COATED WITH A SATIN BLACK POLYESTER-BASED TGIC POWDER COATING APPLIED TO 2.5 MILS TO ALL FINISHED PIECES. POWDER COATING SHALL CONTAIN A UV FADE INHIBITOR.
- BOTH GATE AND FENCING SHALL BE 8' HIGH.
- GATES SHALL BE MINIMUM OF 36" WIDTH AND BE INSTALLED IN COMPLIANCE WITH ADA REQUIREMENTS FOR CLEAR WIDTH AND MINIMUM MANUVERING CLEARANCES.
- GATES SHALL BE FITTED WITH CHAIN-LINK MESH INSTALLED TO PREVENT TAMPERING WITH LOCKS.
- LOCKS BY OTHERS.
- GATES, FENCING, HARDWARE, AND ALL ASSOCIATED COMPONENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- FENCE MOUNTING DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL MOUNT FENCE PANELS TO CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED WRITTEN INSTRUCTIONS.

ISSUED FOR BID

DATE: JUNE 2023
DESIGNED BY: AMIAK
DRAWN BY: OFF/CM
CHECKED BY: WPR

PROJECT NO.
C14402010

CITY OF PETALUMA
PUBLIC WORKS & UTILITIES
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT NOTES, ABBREVIATIONS, & SYMBOLS

SHEET
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FLOATING DOCK AND GANGWAY INSTALLATION

1. FLOATING DOCKS AND GANGWAY SHALL BE INSTALLED ACCORDING TO THE PLANS, RECOMMENDATIONS, AND PROCEDURES PROVIDED BY BELLINGHAM MARINE WHICH WILL BE PROVIDED TO THE CONTRACTOR UPON AWARD.

ENVIRONMENTAL IMPACTS:

- IN ORDER TO REDUCE POTENTIALLY SIGNIFICANT IMPACTS GENERATED BY PILE DRIVING TO LEVELS BELOW SIGNIFICANCE, THE PROJECT PROPONENT SHALL IMPLEMENT A GOOD FAITH EFFORT TO CONDUCT PILE-DRIVING ACTIVITIES WITHIN THE ENVIRONMENTAL WORK WINDOW, WHICH IS OUTSIDE OF THE MIGRATORY PERIOD FOR LISTED FISH SPECIES AND INDICATES AN EXPECTED ABSENCE OF FISH IN THE PROJECT AREA.
- SILT-CURTAINS SHALL BE UTILIZED DURING ALL PILE DRIVING ACTIVITIES TO LIMIT THE AMOUNT OF SUSPENDED SEDIMENT ENTERING THE WATER COLUMN. IN ACCORDANCE WITH THE SAN FRANCISCO BASIN PLAN WATER QUALITY OBJECTIVE.
- DRILLING OR SAWING OF WOOD TREATED WITH PRESERVATIVES SHALL BE CONDUCTED ON LAND.
- STOCKPILING OF MATERIALS, INCLUDING PORTABLE EQUIPMENT, VEHICLES AND SUPPLIES (E.G., CHEMICALS), WILL BE RESTRICTED TO THE DESIGNATED CONSTRUCTION STAGING AREAS, EXCLUSIVE OF ANY RIPARIAN AREAS; REFUELING OF ANY VEHICLES OR EQUIPMENT SHOULD BE DONE AT LEAST 100 FEET AWAY FROM THE RIVER.
- ORANGE CONSTRUCTION FENCING SHOULD BE PLACED AROUND ALL EXISTING RIPARIAN AND/OR EMERGENT WETLAND VEGETATION TO AVOID POTENTIAL IMPACTS TO THIS SENSITIVE VEGETATION COMMUNITY DURING CONSTRUCTION ACTIVITIES NEAR THE PIER AND GANGWAY. PLACEMENT OF EXCLUSION FENCING SHOULD BE PERFORMED UNDER THE DIRECTION OF A BIOLOGIST TO ENSURE COMPLETE AVOIDANCE OF SENSITIVE RIPARIAN AND WETLAND HABITAT.
- IN ADDITION TO ORANGE CONSTRUCTION FENCING, SILT FENCE SHOULD BE INSTALLED AND MAINTAINED BETWEEN THE STAGING AREA AND ADJACENT WATERWAY TO PREVENT ANY CONTAMINANTS FROM ENTERING THE WATERWAY.
- BEST MANAGEMENT PRACTICES SHOULD BE EMPLOYED INCLUDING THE PREPARATION OF SPILL PREVENTION PLAN TO PREVENT DISCHARGE OR SPILLING OF MATERIALS OR LIQUIDS INTO THE ADJACENT WATERWAY OR RIPARIAN HABITAT AREA.
- REMOVAL OF EXISTING TIMBER PILES SHALL BE PERFORMED WITH A VIBRATORY HAMMER. IF PILE BREAKS DURING THE REMOVAL PROCESS, THE CONTRACTOR SHALL CUT THE PILE BELOW MUDLINE.
- WORK TO BE PERFORMED BY BARGE MOUNTED CRANE AND SUPPORTING EQUIPMENT AS REQUIRED.
- THE PROPOSED REPLACEMENT PILES ARE TO BE INSTALLED AND HELD IN PLACE BY A BARGE MOUNTED CRANE IN ORDER TO DRIVE THE PILES.
- THE PROPOSED REPLACEMENT PILES ARE TO BE DRIVEN WITH A VIBRATORY HAMMER TO THE GREATEST EXTENT POSSIBLE.
- PILE DRIVING WILL BE CONDUCTED WITHIN THE SHORTEST TIME AS IS PRACTICABLE AND IN COMPLIANCE WITH METHODOLOGY APPROVED BY NMFS AND CDFW.
- WHERE IT IS PRACTICAL TO DO SO, PROTECTIVE MATERIALS WILL BE USED TO PREVENT MATERIALS FROM ENTERING THE WATERWAY. THIS MAY INCLUDE SILT SCREENS DURING PILE DRIVING AND NETTING WHILE WORK IS PERFORMED ON THE DOCK AND GANGWAYS.

- THE NUMBER OF ACCESS ROUTES, AND THE NUMBER AND SIZE OF STAGING AREAS, AND THE TOTAL AREA OF THE WORK SITE ACTIVITY WILL BE LIMITED TO THE MINIMUM NECESSARY TO COMPLETE THE PROJECT. THE DOCK WILL ARRIVE VIA BARGE TO MINIMIZE IMPACTS TO THE RIPARIAN ZONE. ANY WORK TO BE PERFORMED LANDSIDE WILL BE LIMITED TO THE LEAST EXTENT POSSIBLE TO MINIMIZE ANY POTENTIAL IMPACTS.
- EROSION CONTROL MATERIALS (SILT FENCE AND STRAW WATTLES) WILL BE INSTALLED ALONG THE BANK TO PREVENT SEDIMENT FROM WASHING INTO THE RIVER DURING CONSTRUCTION.
- TOXIC SUBSTANCES, PARTICULARLY WOOD PRESERVATIVES, WILL BE PREVENTED FROM FALLING INTO THE WATER. IN THE EVENT THAT ANY DRILLING OR SAWING OF WOOD TREATED WITH PRESERVATIVES IS PERFORMED, ALL WORK WILL BE CONDUCTED ON LAND AWAY FROM THE RIVER. THE USE OF WOOD TREATED WITH PRESERVATIVES IS NOT ANTICIPATED.
- IN THE EVENT OF A FORECASTED STORM PRODUCE AT LEAST 0.10 INCH OF PRECIPITATION WITHIN A 24-HOUR PERIOD ALL EROSION CONTROL MATERIALS ARE TO BE LOCATED ON-SITE AND READY TO BE DEPLOYED. NO PHASE OF THE PROJECT WILL BE INITIATED IF EROSION CONTROL MEASURES CANNOT BE COMPLETELY INSTALLED PRIOR TO THE ONSET OF A STORM EVENT PREDICTED BY 72-HOUR WEATHER FORECASTS FROM THE NATIONAL WEATHER SERVICE.
- STAGING/STORAGE AREAS FOR EQUIPMENT, MATERIALS, FUELS, LUBRICANTS, AND SOLVENTS, WOULD BE LOCATED OUTSIDE OF THE RIPARIAN AREA AND ABOVE THE TOP OF BANK AS FEASIBLE. ALL EQUIPMENT WILL BE MOVED AWAY FROM THE RIPARIAN AREA PRIOR TO REFUELING AND LUBRICATING. THE PROJECT MANAGER WILL ENSURE THAT CONTAMINATION OF HABITAT DOES NOT OCCUR DURING SUCH OPERATIONS DUE TO ACCIDENTAL SPILLS. ALL WORKERS WILL BE INFORMED OF THE IMPORTANCE OF PREVENTING SPILLS AND OF THE APPROPRIATE MEASURES TO TAKE SHOULD A SPILL OCCUR.

- DURING ALL ACTIVITIES AND ONCE CONSTRUCTION IS OVER, ALL CONSTRUCTION TRASH THAT MAY ATTRACT PREDATORS WILL BE PROPERLY CONTAINED, REMOVED FROM THE WORK SITE, AND DISPOSED OF REGULARLY.
- ALL TEMPORARILY DISTURBED AREAS WILL BE RESTORED TO PREVIOUS CONDITION AND COVERED WITH NATIVE GRASS SEEDING WHERE APPROPRIATE.
- NO TREES ARE IDENTIFIED FOR FULL REMOVAL FOR THE PROJECT, HOWEVER IF ANY TREES ARE PERMANENTLY IMPACTED, THEY WILL BE REPLACED BY TREE PLANTING IN THE RIPARIAN ZONE AT A RATIO TO BE DETERMINED IN RESOURCE AGENCY PERMITS (I.E. CDFW 1600 SAA). ONLY NATIVE SHRUBS AND TREES FROM THE PETALUMA RIVER WATERSHED, WILL BE USED FOR REVEGETATION.
- LIMBING AND TRIMMING OF BRANCHES FOR EQUIPMENT ACCESS WILL BE KEPT TO A MINIMUM AND BE CONDUCTED UNDER THE SUPERVISION OF THE PROJECT MANAGER.
- ANY WORK DONE IN THE RIPARIAN ZONE THAT WILL DISTURB SOIL, WILL BE TREATED FOR EROSION CONTROL AT THE COMPLETION OF PROJECT. THIS WOULD INCLUDE SPREADING NATIVE GRASS SEEDING AND PLACEMENT OF EROSION CONTROL MATERIALS SUCH AS BIODEGRADABLE EROSION CONTROL BLANKETS AND STRAW WATTLES.
- NO HEAVY EQUIPMENT WILL BE STORED OR REFUELED IN THE RESOURCE AREAS.
- CONTRACTOR SHALL MINIMIZE IMPACTS TO COASTAL RESOURCE AREAS AT ALL TIMES DURING THE PROPOSED WORK.

TIDAL STAGE	NAVD88	(MLLW)	(MLW)
MHHW	+6.30	+6.01	+5.07
MHW	+5.77	+5.48	+4.54
MLW	+1.23	+0.94	+0.00
MLLW	+0.29	+0.00	-0.94
NAVD88	+0.00	-0.29	-1.23

DATUM OFFSETS TAKEN FROM NOAA V-DATUM CONVERSION STATION ID: 9415252, PETALUMA RIVER ENTRANCE CA, DATED SEP 12, 2016

GENERAL SYMBOLS

EXISTING	PROPOSED	
---	---	PROPERTY LINE
---	---	SHORELINE
-x-x-x-	-x-x-x-	FENCE LINE
[Hatched Box]	[Hatched Box]	BUILDINGS
○	●	POWER AND WATER PEDESTAL
○	●	STEEL PILES
○	●	TIMBER PILES
[Cross-hatched Box]	[Cross-hatched Box]	LIMITS OF DEMOLITION
[Diagonal-hatched Box]	[Diagonal-hatched Box]	TO BE PROTECTED
☼	☼	STREET LIGHT
⊕	⊕	FIRE HYDRANT
⊕	⊕	BORING
	P#	STEEL PILE DESIGNATION
	☼	SOLAR MOUNTED DOCK LIGHT

PERMITS
DATE
PENDING

DOCUMENT TITLE

USACE LETTER OF PERMISSION
FILE NO. SPN-2021-00066
CDFW EPIMS NOTIFICATION NO. SON-16617 R3
SFBRWQCB PLACE ID: 875673
NOTE: THE ABOVE PERMITS HAVE BEEN OBTAINED FOR INSTALLATION OF THE CONCRETE FLOATS AND GANGWAY STRUCTURES. ISSUANCE OF PERMITS FOR PILE INSTALLATION ARE PENDING AND WILL BE PROVIDED UPON ISSUANCE.

ISSUED FOR BID

ABBREVIATIONS

AHTL	ANNUAL HIGH TIDE LINE
APPROX	APPROXIMATE
BH	BORE HOLE
CONC	CONCRETE
CONT	CONTINUED
Ø	DIAMETER
EX	EXISTING
FRP	FIBER-REINFORCED PLASTIC
IN	INCH
L	LENGTH
MAX	MAXIMUM
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MIN	MINIMUM
NTS	NOT-TO-SCALE
O.C.	ON CENTER
±	PLUS OR MINUS
PROP	PROPOSED
PSCC	PETALUMA SMALL CRAFT CENTER
PTB	PETALUMA TURNING BASIN
R	RADIUS
TYP	TYPICAL
USACE	U.S. ARMY CORPS OF ENGINEERS
VAR	VARIES


RECORD DRAWING REFERENCE			
NO.	DATE	DESCRIPTION	BY

PROJECT RESOURCE DATA (FOR CITY USE)	
PROJECT START	
PROJECT END	
PROJECT CONTRACTOR	TBD
CONTRACTOR'S SUPER.	TBD
REGULATORY PERMITS	NA
PROJECT MANAGER	CITY OF PETALUMA
PROJECT INSPECTOR	FOTH & VAN DYKE AND ASSOCIATES, INC.
OTHER	

DATE: JUNE 2023
DESIGNED BY: AMIAK
DRAWN BY: OFF/CM
CHECKED BY: WPR

PROJECT NO.
C14402010

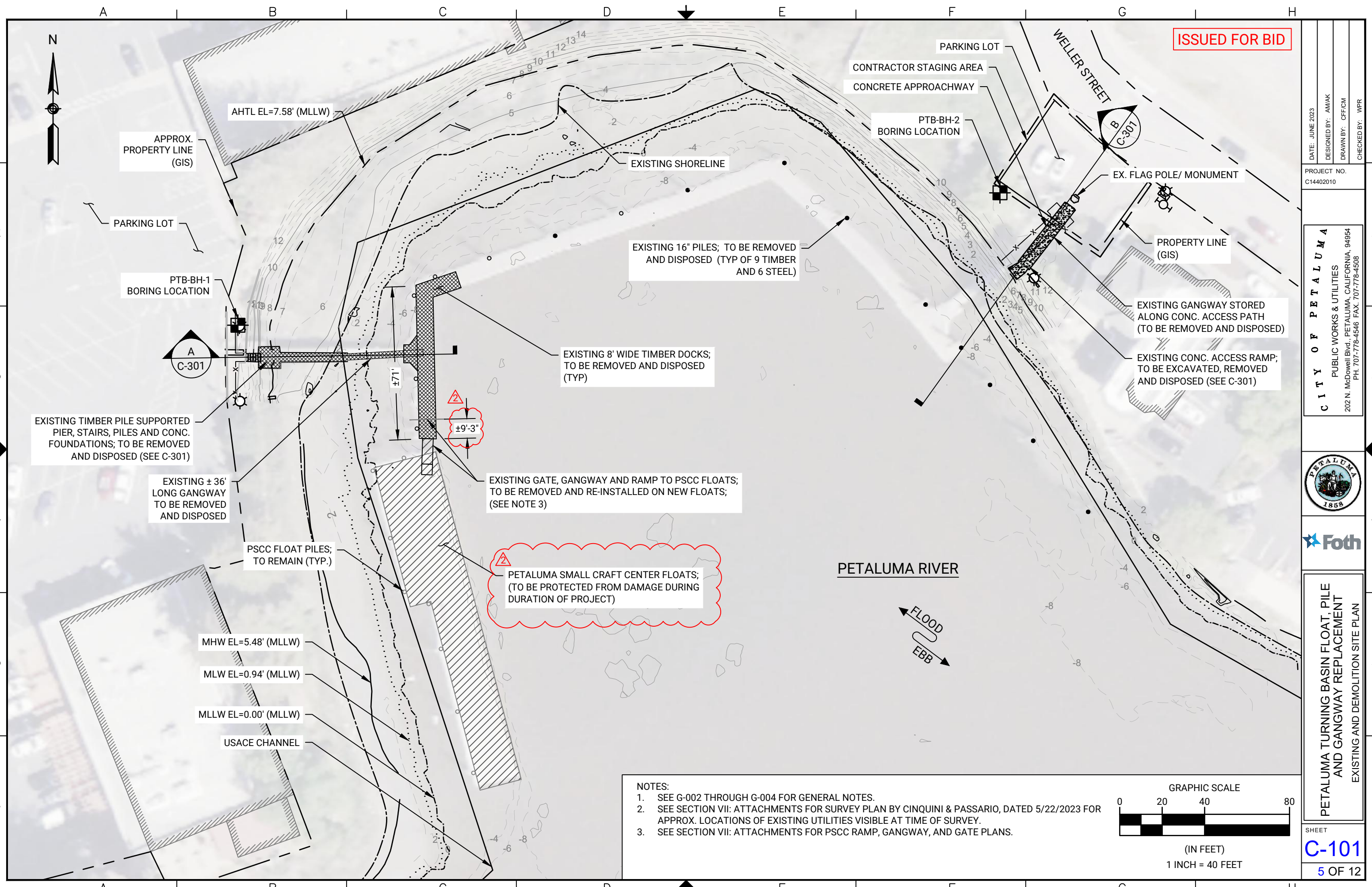
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Foth

PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
NOTES, ABBREVIATIONS, & SYMBOLS

SHEET
G-004
4 OF 12



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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
 EXISTING AND DEMOLITION SITE PLAN

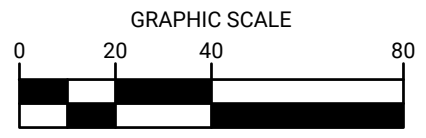
SHEET

C-101

5 OF 12

NOTES:

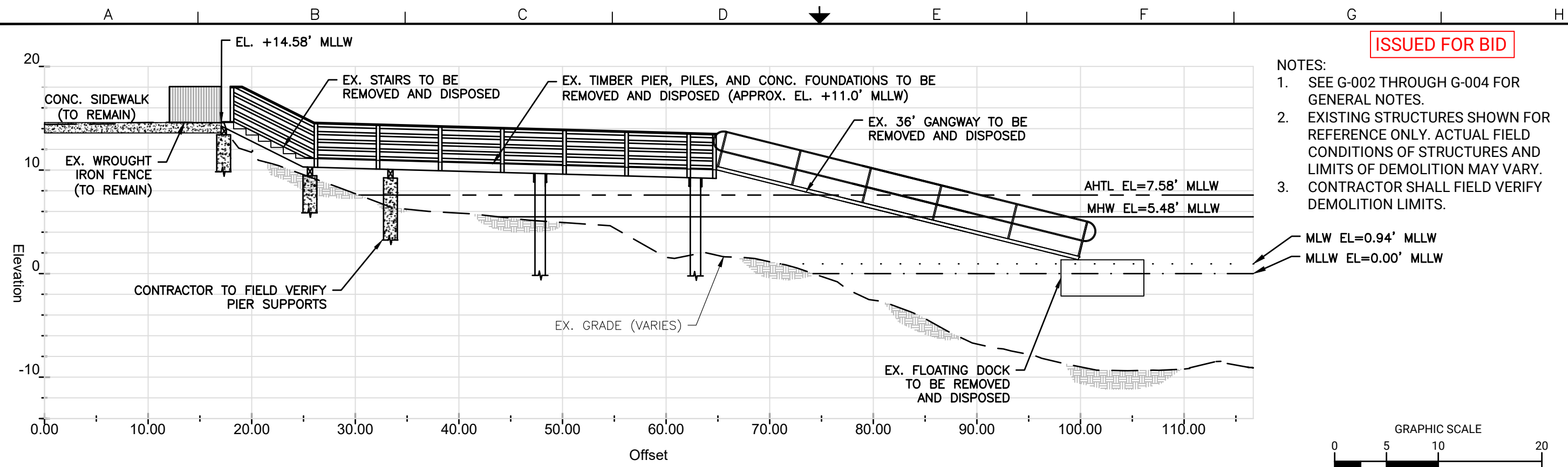
1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
2. SEE SECTION VII: ATTACHMENTS FOR SURVEY PLAN BY CINQUINI & PASSARIO, DATED 5/22/2023 FOR APPROX. LOCATIONS OF EXISTING UTILITIES VISIBLE AT TIME OF SURVEY.
3. SEE SECTION VII: ATTACHMENTS FOR PSSC RAMP, GANGWAY, AND GATE PLANS.



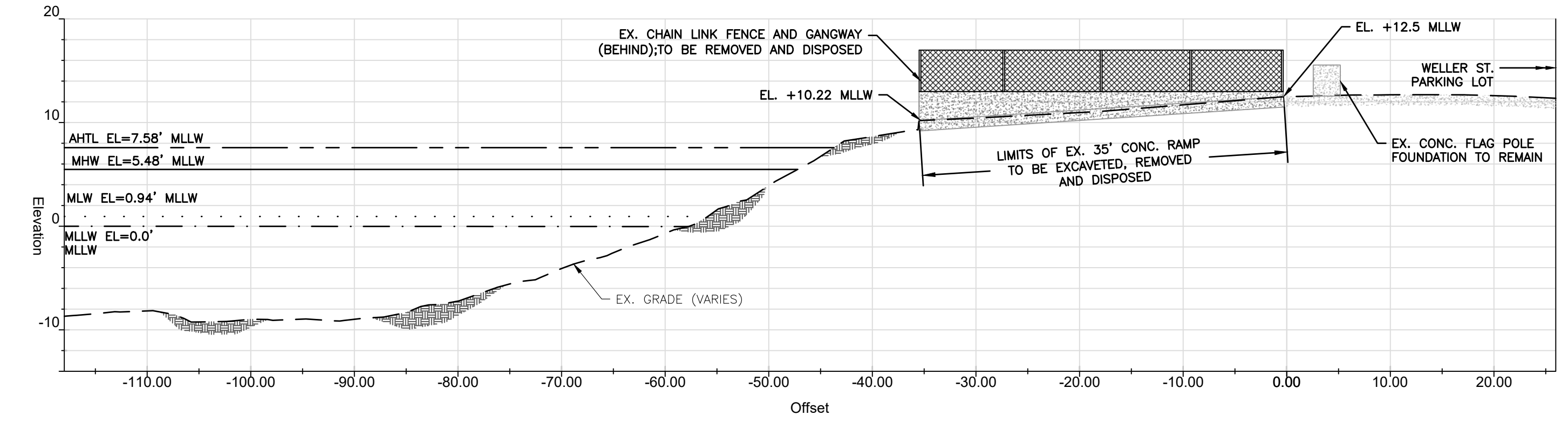
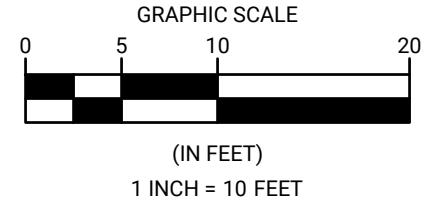
(IN FEET)
 1 INCH = 40 FEET

ISSUED FOR BID

- NOTES:
1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
 2. EXISTING STRUCTURES SHOWN FOR REFERENCE ONLY. ACTUAL FIELD CONDITIONS OF STRUCTURES AND LIMITS OF DEMOLITION MAY VARY.
 3. CONTRACTOR SHALL FIELD VERIFY DEMOLITION LIMITS.



A WEST GANGWAY PROFILE
C-301 SCALE: 1" = 10'



B EAST GANGWAY PROFILE
C-301 SCALE: 1" = 10'

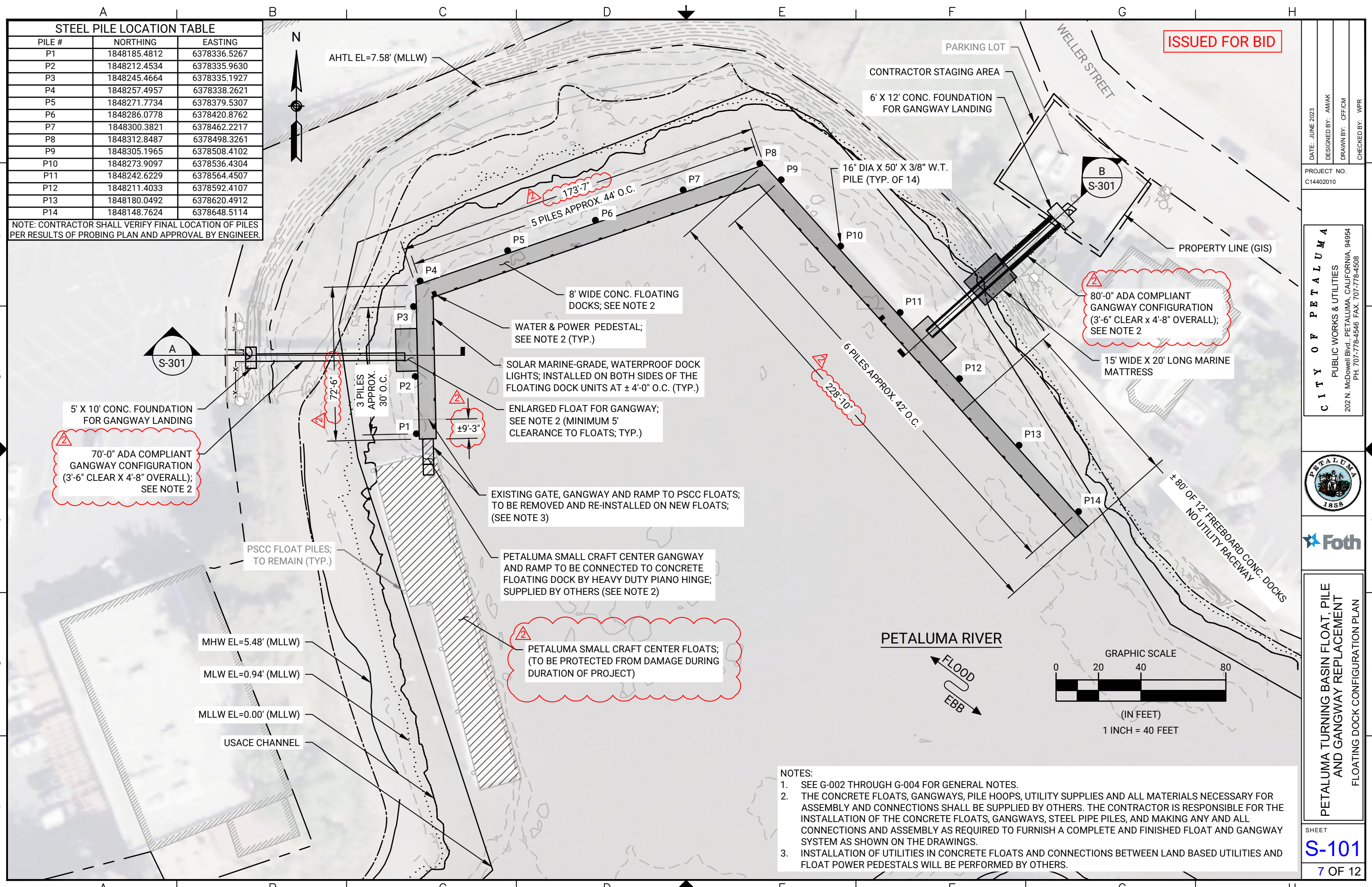
DATE: JUNE 2023
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
EXISTING GANGWAY PROFILES



STEEL PILE LOCATION TABLE		
PILE #	NORTHING	EASTING
P1	1848185.4812	6378336.5267
P2	1848212.4534	6378335.9630
P3	1848245.4664	6378335.1927
P4	1848257.4957	6378338.2621
P5	1848271.7734	6378379.5307
P6	1848286.0778	6378420.8762
P7	1848300.3821	6378462.2217
P8	1848312.8487	6378498.3261
P9	1848305.1965	6378508.4102
P10	1848273.9097	6378536.4304
P11	1848242.6229	6378564.4507
P12	1848211.4033	6378592.4107
P13	1848180.0492	6378620.4912
P14	1848148.7624	6378648.5114

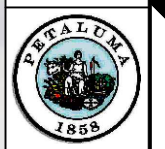
NOTE: CONTRACTOR SHALL VERIFY FINAL LOCATION OF PILES PER RESULTS OF PROBING PLAN AND APPROVAL BY ENGINEER.

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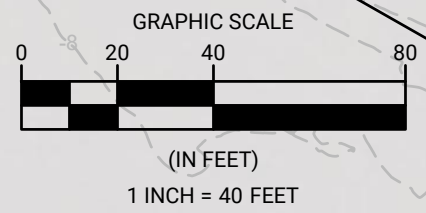
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
 FLOATING DOCK CONFIGURATION PLAN

SHEET
S-101
 7 OF 12

- NOTES:
- SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
 - THE CONCRETE FLOATS, GANGWAYS, PILE HOOPS, UTILITY SUPPLIES AND ALL MATERIALS NECESSARY FOR ASSEMBLY AND CONNECTIONS SHALL BE SUPPLIED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE CONCRETE FLOATS, GANGWAYS, STEEL PIPE PILES, AND MAKING ANY AND ALL CONNECTIONS AND ASSEMBLY AS REQUIRED TO FURNISH A COMPLETE AND FINISHED FLOAT AND GANGWAY SYSTEM AS SHOWN ON THE DRAWINGS.
 - INSTALLATION OF UTILITIES IN CONCRETE FLOATS AND CONNECTIONS BETWEEN LAND BASED UTILITIES AND FLOAT POWER PEDESTALS WILL BE PERFORMED BY OTHERS.



PETALUMA RIVER



MHW EL=5.48' (MLLW)
 MLW EL=0.94' (MLLW)
 MLLW EL=0.00' (MLLW)
 USACE CHANNEL

PETALUMA SMALL CRAFT CENTER FLOATS;
 (TO BE PROTECTED FROM DAMAGE DURING DURATION OF PROJECT)

80'-0" ADA COMPLIANT GANGWAY CONFIGURATION (3'-6" CLEAR X 4'-8" OVERALL); SEE NOTE 2

70'-0" ADA COMPLIANT GANGWAY CONFIGURATION (3'-6" CLEAR X 4'-8" OVERALL); SEE NOTE 2

ENLARGED FLOAT FOR GANGWAY; SEE NOTE 2 (MINIMUM 5' CLEARANCE TO FLOATS; TYP.)

SOLAR MARINE-GRADE, WATERPROOF DOCK LIGHTS; INSTALLED ON BOTH SIDES OF THE FLOATING DOCK UNITS AT ± 4'-0" O.C. (TYP.)

WATER & POWER PEDESTAL; SEE NOTE 2 (TYP.)

8' WIDE CONC. FLOATING DOCKS; SEE NOTE 2

5 PILES APPROX. 44' O.C.

6 PILES APPROX. 42' O.C.

16" DIA X 50' X 3/8" W.T. PILE (TYP. OF 14)

6' X 12' CONC. FOUNDATION FOR GANGWAY LANDING

PARKING LOT

CONTRACTOR STAGING AREA

WELLER STREET

PROPERTY LINE (GIS)

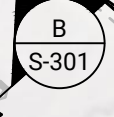
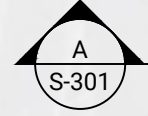
15' WIDE X 20' LONG MARINE MATTRESS

± 80' OF 12" FREEBOARD CONC. DOCKS
 NO UTILITY RACEWAY

PSCC FLOAT PILES; TO REMAIN (TYP.)

EXISTING GATE, GANGWAY AND RAMP TO PSCC FLOATS; TO BE REMOVED AND RE-INSTALLED ON NEW FLOATS; (SEE NOTE 3)

PETALUMA SMALL CRAFT CENTER GANGWAY AND RAMP TO BE CONNECTED TO CONCRETE FLOATING DOCK BY HEAVY DUTY PIANO HINGE; SUPPLIED BY OTHERS (SEE NOTE 2)



AHTL EL=7.58' (MLLW)

3 PILES APPROX. 30' O.C.

±9'-3"

72'-6"

173'-7"

3

4

5

6

1

2

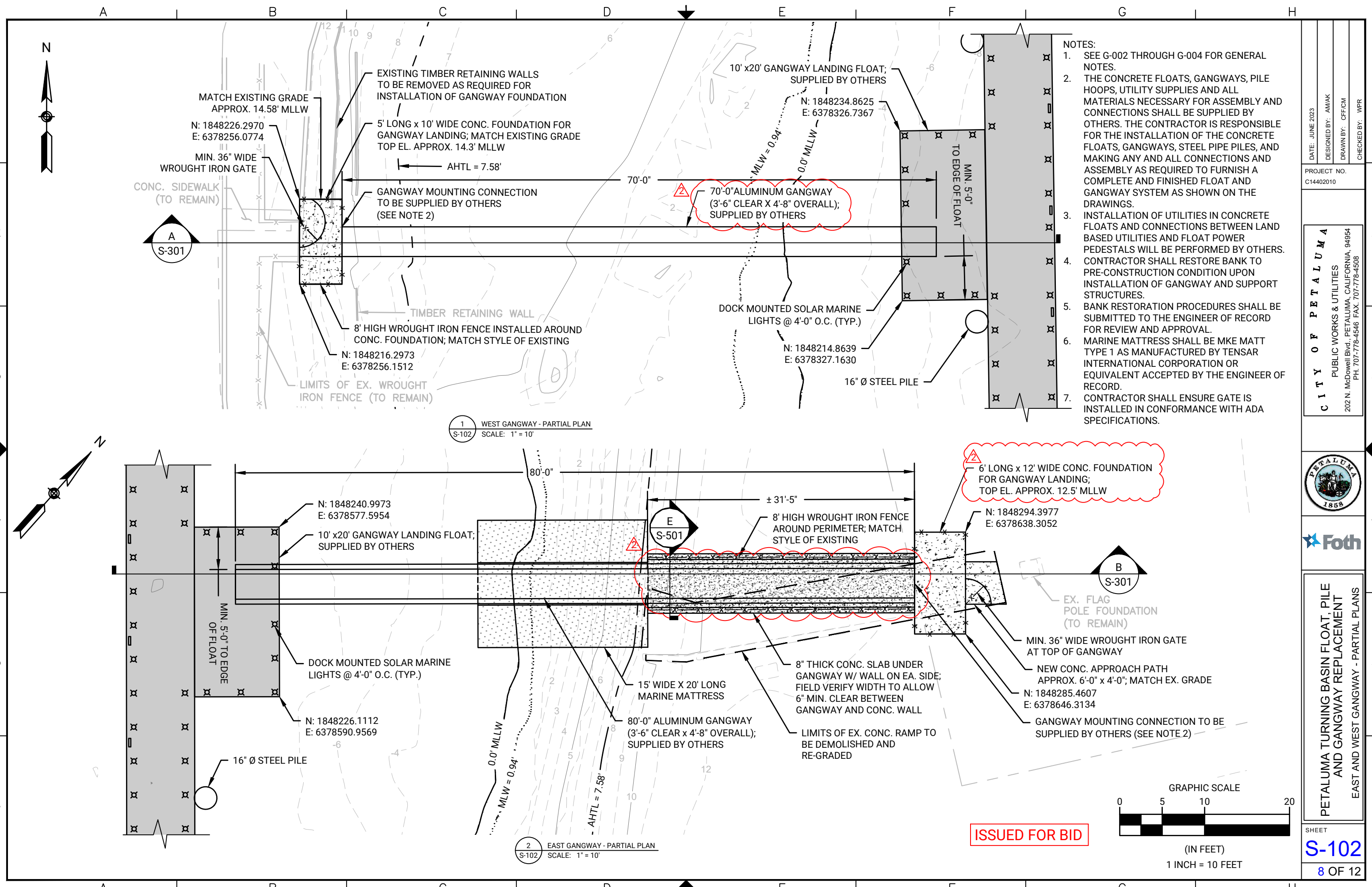
3

4

5

6

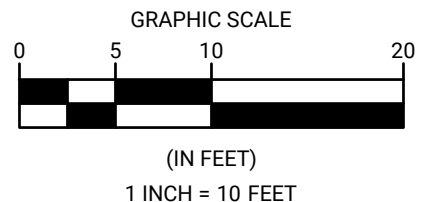
A B C D E F G H





- NOTES:
- SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
 - THE CONCRETE FLOATS, GANGWAYS, PILE HOOPS, UTILITY SUPPLIES AND ALL MATERIALS NECESSARY FOR ASSEMBLY AND CONNECTIONS SHALL BE SUPPLIED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE CONCRETE FLOATS, GANGWAYS, STEEL PIPE PILES, AND MAKING ANY AND ALL CONNECTIONS AND ASSEMBLY AS REQUIRED TO FURNISH A COMPLETE AND FINISHED FLOAT AND GANGWAY SYSTEM AS SHOWN ON THE DRAWINGS.
 - INSTALLATION OF UTILITIES IN CONCRETE FLOATS AND CONNECTIONS BETWEEN LAND BASED UTILITIES AND FLOAT POWER PEDESTALS WILL BE PERFORMED BY OTHERS.
 - CONTRACTOR SHALL RESTORE BANK TO PRE-CONSTRUCTION CONDITION UPON INSTALLATION OF GANGWAY AND SUPPORT STRUCTURES.
 - BANK RESTORATION PROCEDURES SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
 - MARINE MATTRESS SHALL BE MKE MATT TYPE 1 AS MANUFACTURED BY TENSAR INTERNATIONAL CORPORATION OR EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
 - CONTRACTOR SHALL ENSURE GATE IS INSTALLED IN CONFORMANCE WITH ADA SPECIFICATIONS.

1 WEST GANGWAY - PARTIAL PLAN
S-102
SCALE: 1" = 10'

2 EAST GANGWAY - PARTIAL PLAN
S-102
SCALE: 1" = 10'



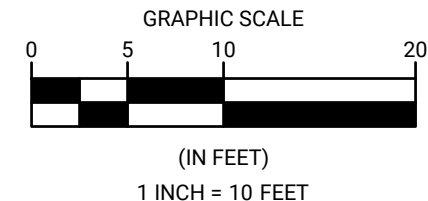
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 Foth			
PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT EAST AND WEST GANGWAY - PARTIAL PLANS			
SHEET			
S-102			
8 OF 12			

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NOTES:

1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES.
2. THE CONCRETE FLOATS, GANGWAYS, PILE HOOPS, UTILITY SUPPLIES AND ALL MATERIALS NECESSARY FOR ASSEMBLY AND CONNECTIONS SHALL BE SUPPLIED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE CONCRETE FLOATS, GANGWAYS, STEEL PIPE PILES, AND MAKING ANY AND ALL CONNECTIONS AND ASSEMBLY AS REQUIRED TO FURNISH A COMPLETE AND FINISHED FLOAT AND GANGWAY SYSTEM AS SHOWN ON THE DRAWINGS.
3. INSTALLATION OF UTILITIES IN CONCRETE FLOATS AND CONNECTIONS BETWEEN LAND BASED UTILITIES AND FLOAT POWER PEDESTALS WILL BE PERFORMED BY OTHERS.
4. CONTRACTOR SHALL RESTORE BANK TO PRE-CONSTRUCTION CONDITION UPON INSTALLATION OF GANGWAY AND SUPPORT STRUCTURES.
5. BANK RESTORATION PROCEDURES SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.



A WEST GANGWAY PROFILE SCALE: 1" = 10'

B EAST GANGWAY PROFILE SCALE: 1" = 10'

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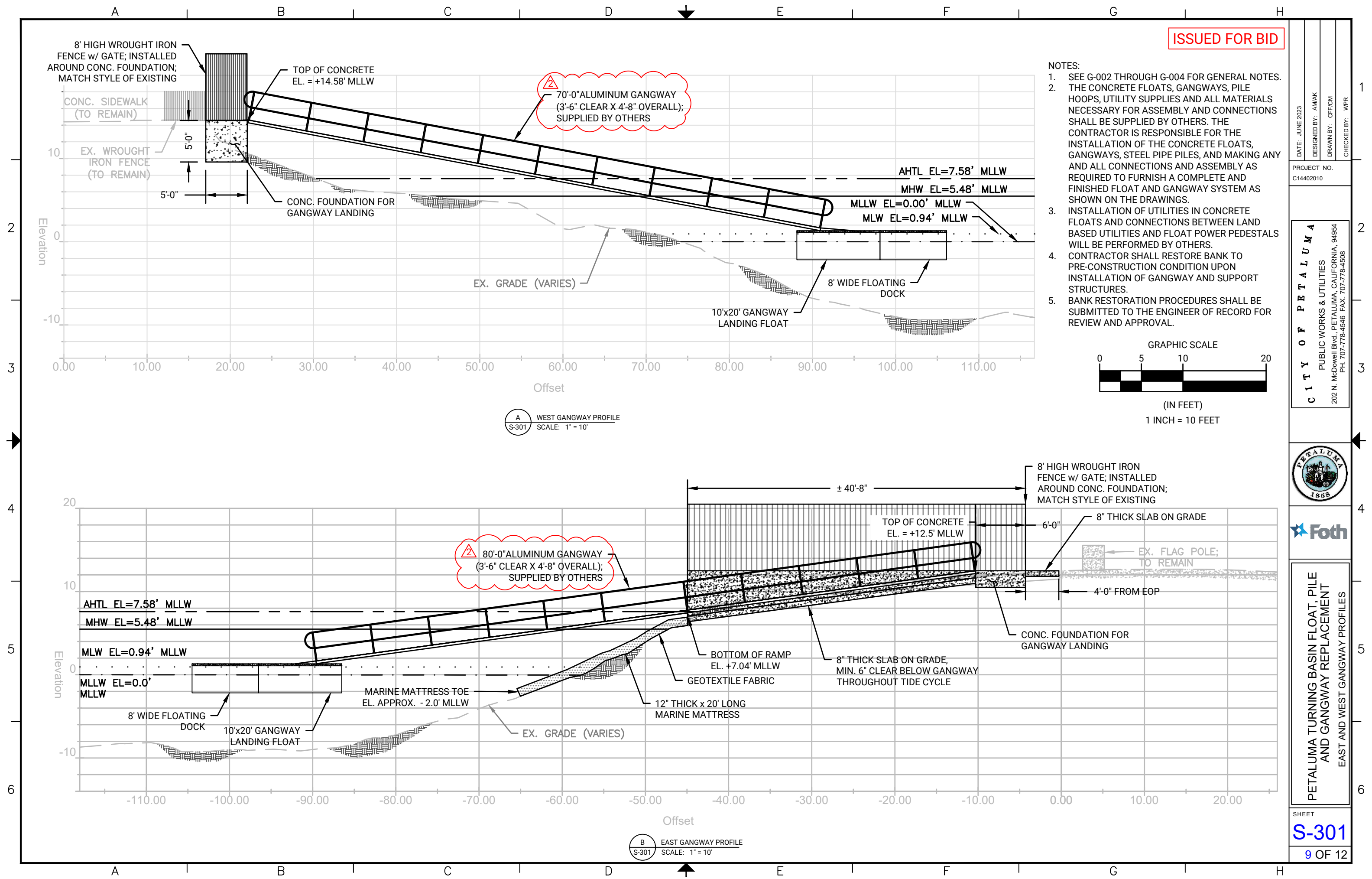
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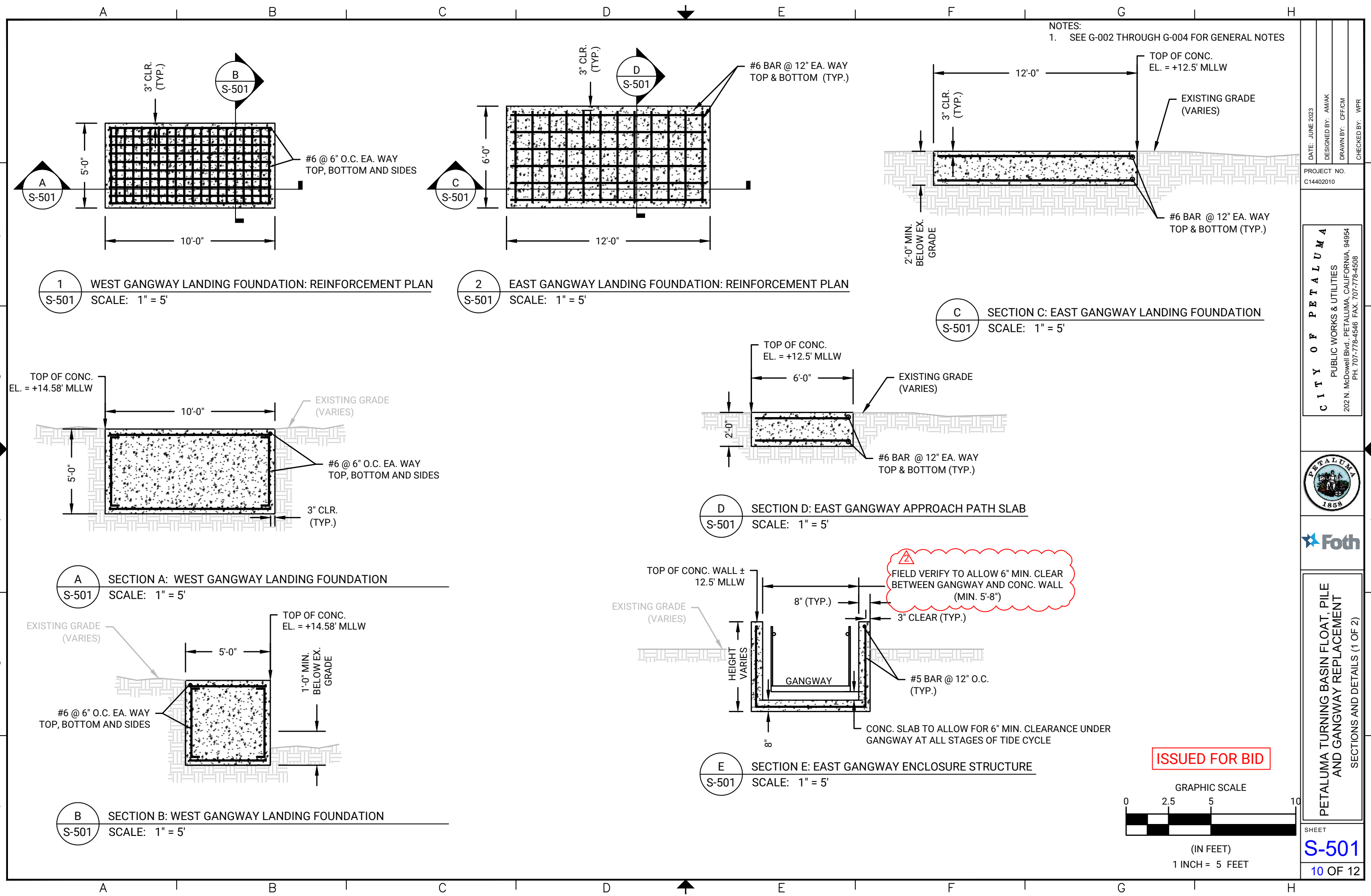


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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
 EAST AND WEST GANGWAY PROFILES

SHEET
S-301
 9 OF 12





NOTES:
1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES

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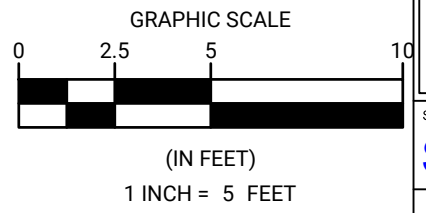
PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
SECTIONS AND DETAILS (1 OF 2)

SHEET

S-501

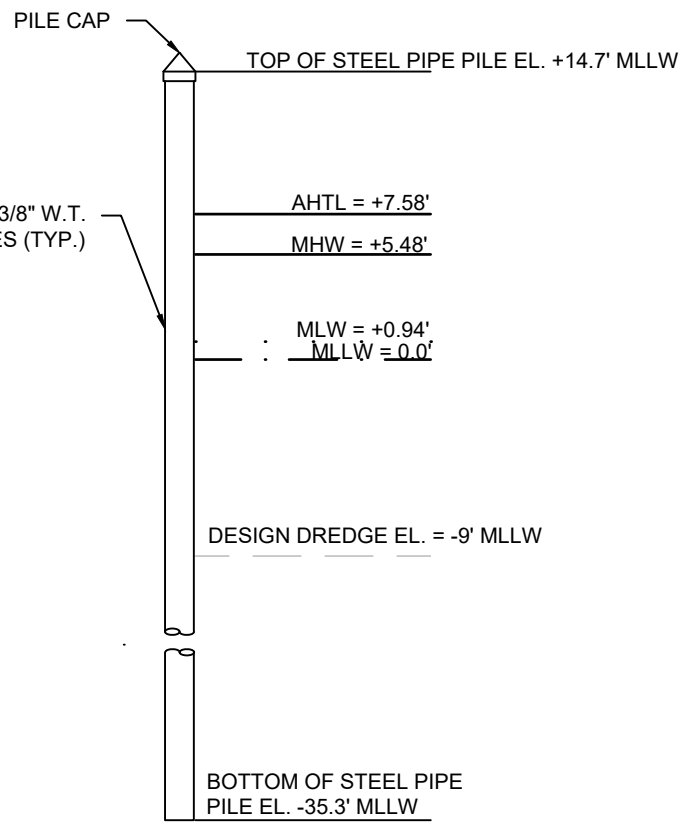
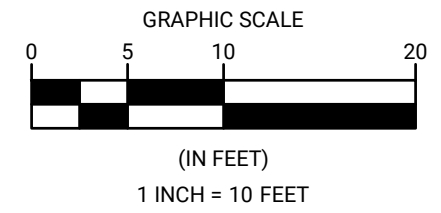
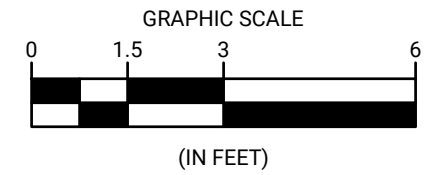
10 OF 12

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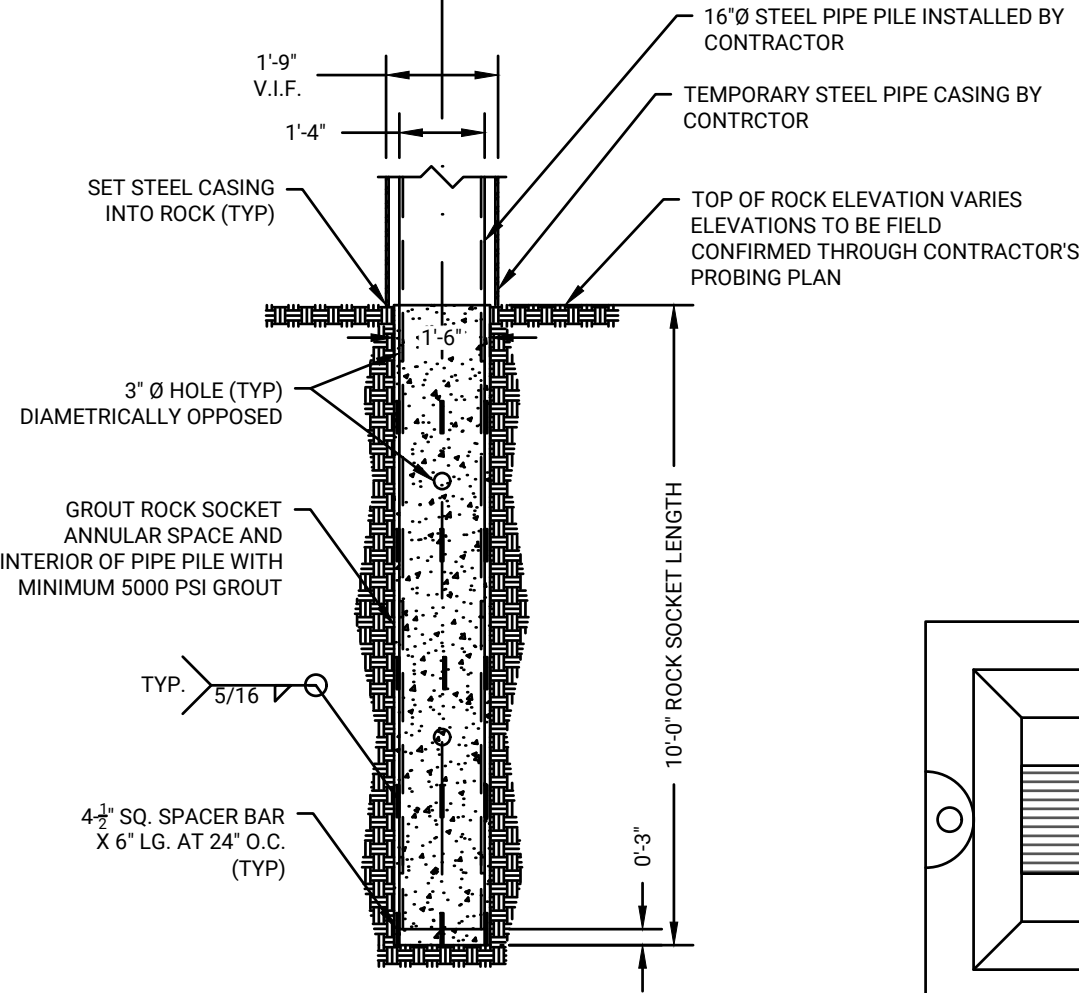
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NOTES:
1. SEE G-002 THROUGH G-004 FOR GENERAL NOTES

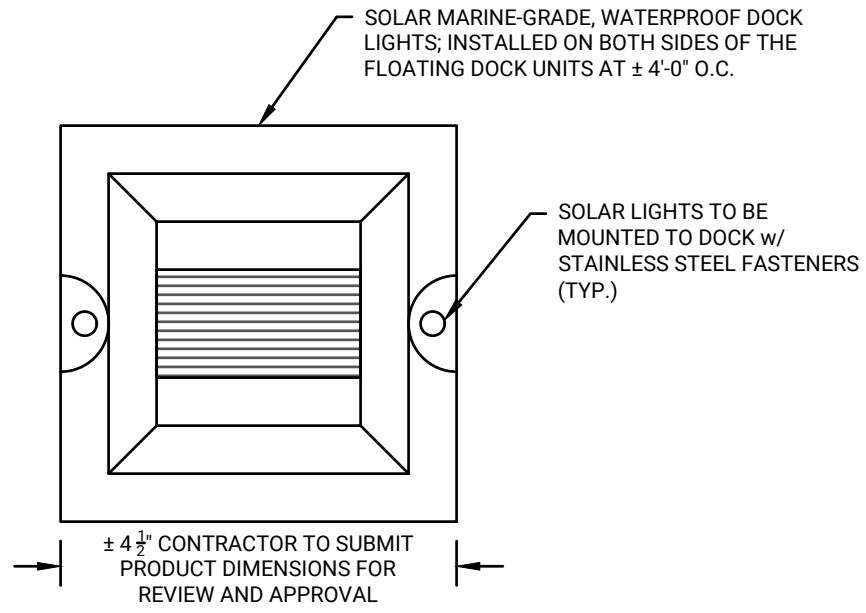


1 TYPICAL PILE DETAIL
S-502 SCALE: 1" = 10'

DETAIL NOTES:
1. STEEL PILES THAT DO NOT REACH REQUIRED TIP ELEVATION SHALL BE GROUTED IN ROCK SOCKET. SEE ROCK SOCKET DETAIL 2/S/502 ON THIS SHEET.



2 ROCK SOCKET DETAIL
S-502 SCALE: 1" = 3'



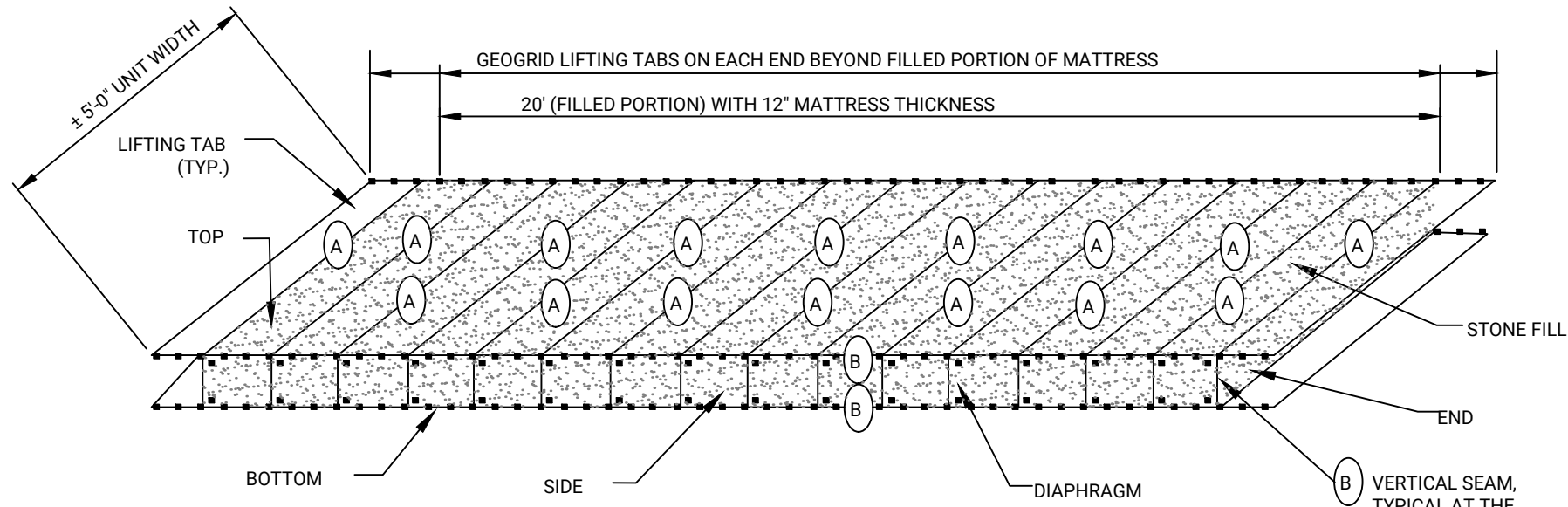
3 DOCK MOUNTED SOLAR MARINE LIGHTS
S-502 SCALE: NOT TO SCALE

LEGEND:

- (A) INDICATES BODKIN CONNECTION USING 3/8" DIAMETER HDPE BODKIN ROD
- (B) INDICATES BRAIDED SEAM USING 3/16" DIAMETER HIGH UV HDPE BRAID

MARINE MATTRESS NOTES:

1. ENDS, TOP, BOTTOM, SIDES AND ANY EXTRA LENGTH USED FOR LIFTING OR ANCHORING PURPOSES SHALL BE COMPOSED OF TENSAR UXTRITON 200 GEOGRID.
2. INTERNAL DIAPHRAGMS SHALL BE COMPOSED OF TENSAR UXTRITON 100 GEOGRID.
3. NOMINAL WIDTH OF EACH UNIT: 5FT (FILLED), 4.3 FT (UNFILLED).
4. TYPICAL THICKNESS (FILLED): 12 INCHES; OPTIONAL THICKNESS: 18 INCHES OR 24 INCHES.
5. PLASTIC CABLES TIES MAY BE USED TO SECURE BODKIN CONNECTORS IN POSITION PRIOR TO TENSIONING OR FILLING OF MATTRESS UNITS.
6. THE CONTRACTOR SHALL ENSURE THAT THE OVERALL WIDTH OF THE MATTRESS IS AT A MINIMUM 15'-0" UTILIZING THE TYPICAL NOMINAL WIDTHS.

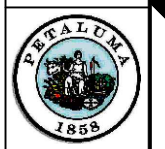


4 TYPICAL MARINE MATTRESS DETAIL
S-502 SCALE: NOT TO SCALE

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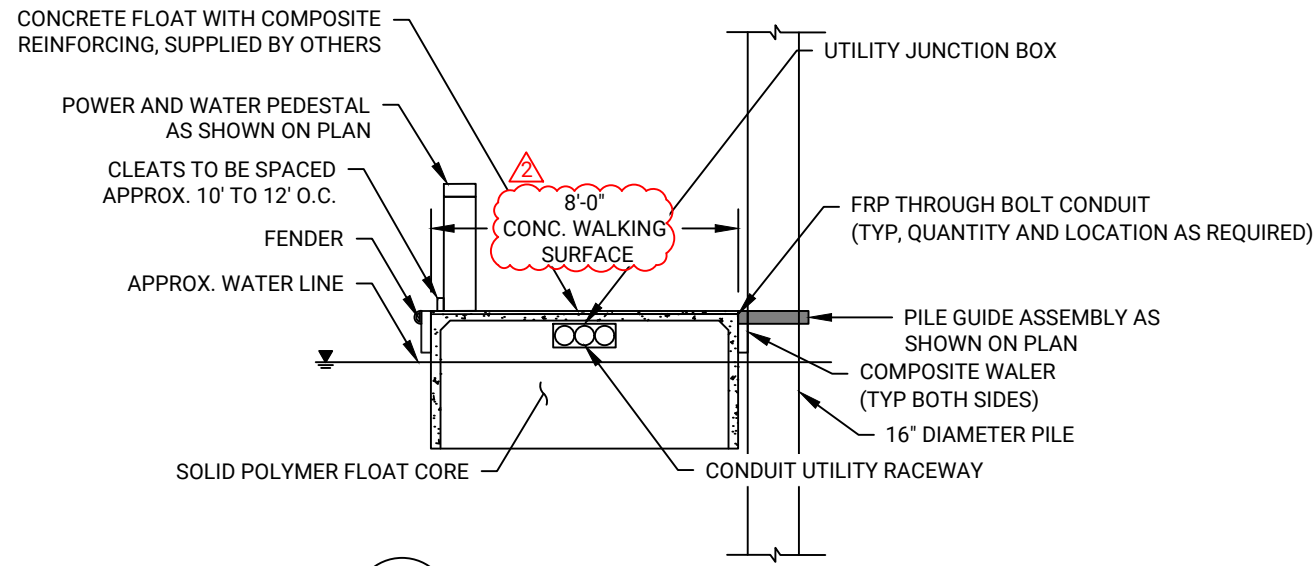
PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
SECTIONS AND DETAILS (2 OF 2)

SHEET

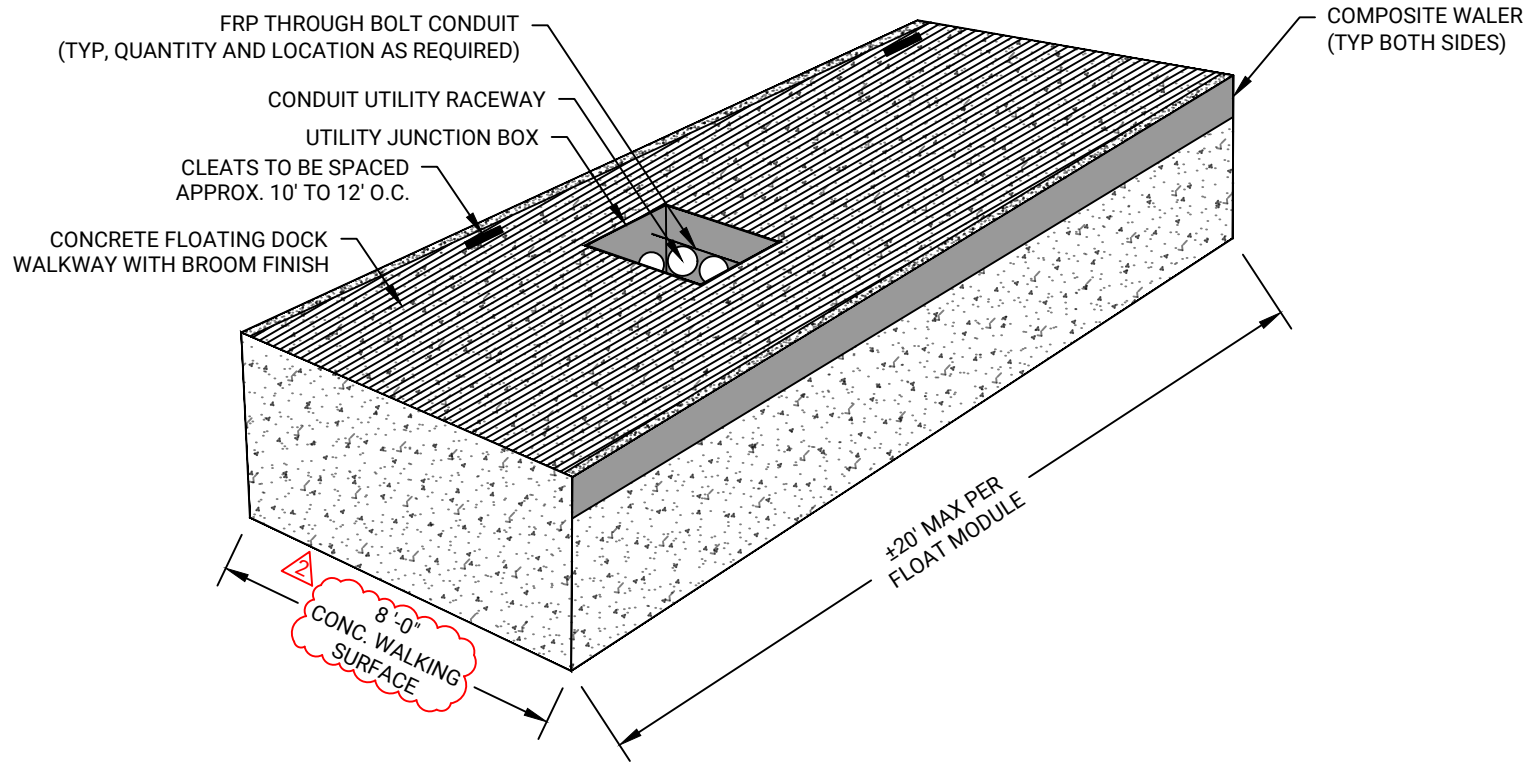
S-502

11 OF 12

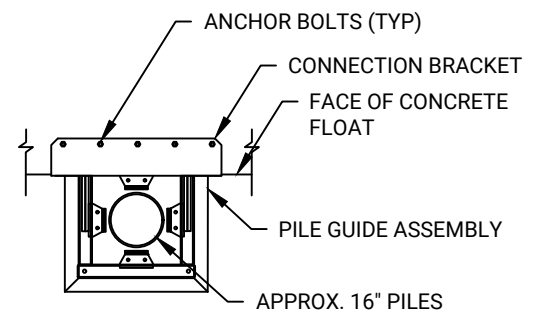
A B C D E F G H



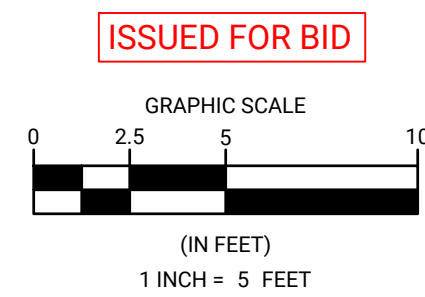
A TYPICAL FLOAT DETAIL (SUPPLIED BY OTHERS)
 S-503 SCALE: 5'



B TYPICAL FLOAT DETAIL
 S-503 SCALE: 1" = 5'



C TYPICAL EXTERIOR PILE GUIDE ASSEMBLY
 S-503 SCALE: 1" = 5'

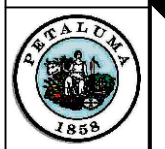


- NOTES:
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PETALUMA TURNING BASIN FLOAT, PILE AND GANGWAY REPLACEMENT
 FLOATING DOCK DETAILS

SHEET
S-503
 12 OF 12

2

3

4

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1

2

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6

A B C D E F G H